

Zero Data Loss Recovery Appliance Licensing Information User Manual



Release 23.1
F72082-02
February 2025



Zero Data Loss Recovery Appliance Licensing Information User Manual, Release 23.1

F72082-02

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Preface

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This preface contains the following topics:

- [Audience](#)
- [Documentation Accessibility](#)
- [Related Documents](#)
- [Conventions](#)

Audience

This book is intended for all purchasers of Zero Data Loss Recovery Appliance. Release 12.1.

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For more information, see the following Oracle resources:

- *Zero Data Loss Recovery Appliance Administrator's Guide*
- *Zero Data Loss Recovery Appliance Protected Database Configuration Guide*
- *Oracle Database Backup and Recovery User's Guide*
- *Oracle Secure Backup Administrator's Guide*

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Convention	Meaning
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monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Licensing Information

The Zero Data Loss Recovery Appliance (Recovery Appliance) software license includes:

- Use of Recovery Appliance software only on Recovery Appliance hardware.
- Restricted use of Oracle Database Enterprise Edition on the Recovery Appliance and the following options:
 - Oracle Real Application Clusters, Oracle Advanced Compression, Oracle Advanced Security, and Oracle Partitioning.
 - Databases are created and used by Recovery Appliance software – customers cannot create their own databases.
- Oracle Secure Backup
- Oracle Enterprise Manager Packs, with restriction for use only with the Recovery Appliance:
 - Oracle Diagnostics Pack
 - Database Lifecycle Management Pack for Oracle Database
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See Also:

- *Oracle Database Licensing Information*
- *Oracle Secure Backup Licensing Information*
- *Oracle Enterprise Manager Licensing Information*

2

Third-Party Product Licenses

This chapter contains the licenses for the third-party products that are included with Oracle Zero Data Loss Recovery Appliance.

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Vendor: RSA

Version: 6.3.2.2

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Byte Code Engineering Library (BCEL) v. 5

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Document Object Model (DOM) v. Level 3

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```
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   version 1.2.11, January 15th, 2017

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   Jean-loup Gailly          Mark Adler
   jloup@gzip.org           madler@alumni.caltech.edu

   The data format used by the zlib library is described by RFCs (Request for
   Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
   (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

```
/* Adler-32 checksum of a data stream
   Copyright (C) 1995-2011, 2016 Mark Adler
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*/
```

```
/* CRC-32 of a data stream
   Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
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   *
   * Thanks to Rodney Brown for his contribution of faster
   * CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
   * tables for updating the shift register in one step with three exclusive-ors
   * instead of four steps with four exclusive-ors.  This results in about a
   * factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

```
/* deflate.c -- compress data using the deflation algorithm
   Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
   For conditions of distribution and use, see copyright notice in zlib.h
*/
```

```
/* inflate.c -- zlib decompression
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 */
```

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jackson-annotations, v. 2.17.1 (FasterXML, LLC)

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Top level component : jackson-annotations 2.17.1
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jackson-core, v. 2.16.1 (FasterXML, LLC)

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jackson-core, v. 2.15.3 (FasterXML, LLC)

=====

Top level component : jackson-core 2.15.3

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has  
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jackson-core, v. 2.15.2 (FasterXML, LLC)

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Top level component : jackson-core 2.15.2
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This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

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```
[INFO] --- maven-dependency-plugin:3.1.2:tree (default-cli) @ jackson-databind ---
[INFO] com.fasterxml.jackson.core:jackson-databind:bundle:2.13.2.2
[INFO] +- com.fasterxml.jackson.core:jackson-annotations:jar:2.13.2:compile
[INFO] +- com.fasterxml.jackson.core:jackson-core:jar:2.13.2:compile
[INFO] +- org.powermock:powermock-core:jar:2.0.0:test
[INFO] | +- org.powermock:powermock-reflect:jar:2.0.0:test
[INFO] | | \- org.objenesis:objenesis:jar:3.0.1:test
[INFO] | +- org.javassist:javassist:jar:3.24.0-GA:test
[INFO] | +- net.bytebuddy:byte-buddy:jar:1.9.3:test
[INFO] | \- net.bytebuddy:byte-buddy-agent:jar:1.9.3:test
[INFO] +- org.powermock:powermock-module-junit4:jar:2.0.0:test
[INFO] | +- org.powermock:powermock-module-junit4-common:jar:2.0.0:test
[INFO] | \- org.hamcrest:hamcrest-core:jar:1.3:test
[INFO] +- org.powermock:powermock-api-mockito2:jar:2.0.0:test
[INFO] | +- org.powermock:powermock-api-support:jar:2.0.0:test
[INFO] | \- org.mockito:mockito-core:jar:2.23.0:test
[INFO] +- javax.measure:jsr-275:jar:0.9.1:test
[INFO] \- junit:junit:jar:4.13.1:test
```

jackson-databind, v. 2.11.2 (FasterXML, LLC)

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Ramda
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expression-eval

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expression-eval

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RequireJS i18n

<http://github.com/requirejs/i18n> for details

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<https://github.com/donmccurdy/expression-eval>

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RequireJS i18n

<http://github.com/requirejs/i18n> for details

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RequireJS

<http://github.com/jrburke/requirejs>

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JavaScript Extension Toolkit (JET), v. 15.1.1 (Oracle)

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# Oracle JET 15.1.1
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expression-eval

<https://github.com/donmccurdy/expression-eval>

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Normalize.scss

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RequireJS i18n

<http://github.com/requirejs/i18n> for details

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RequireJS

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expression-eval

<https://github.com/donmccurdy/expression-eval>

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expression-eval

<https://github.com/donmccurdy/expression-eval>

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JavaScript Extension Toolkit (JET), v. 13.1.0 (Oracle)

```
# Oracle JET 13.1.0
```

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<https://github.com/chaijs/chai>

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expression-eval

<https://github.com/donmccurdy/expression-eval>

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Normalize.scss

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RequireJS
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JavaScript Extension Toolkit (JET), v. 11.1.5 (Oracle)

```
# Oracle JET 11.1.5
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Chai - v4.2.0

<https://github.com/chaijs/chai>

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expression-eval - v2.0.0

<https://github.com/donmccurdy/expression-eval>

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jsep - v0.3.4

<https://github.com/soney/jsep>
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proj4js - v2.5.0

<http://proj4js.org/>

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require-css - v0.1.10

<https://github.com/guybedford/require-css>

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Hammer.JS - v2.0.8 - 2016-04-22
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RequireJS i18n 2.0.2
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JS Signals

Author: Miller Medeiros

Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS text 2.0.15

<http://github.com/requirejs/text>

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RequireJS 2.3.6

<http://github.com/jrburke/requirejs>

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Preact - v10.5.13

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JavaScript Extension Toolkit (JET), v. 11.0.0 (Oracle)

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Chai - v4.2.0

<https://github.com/chaijs/chai>

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expression-eval - v2.0.0

<https://github.com/donmccurdy/expression-eval>

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jsep - v0.3.4

<https://github.com/soney/jsep>

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proj4js - v2.5.0

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require-css - v0.1.10

<https://github.com/guybedford/require-css>

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Hammer.JS - v2.0.8 - 2016-04-22
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Normalize.scss
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RequireJS i18n 2.0.2
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select2.js

<https://github.com/select2/select2>
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jQuery UI - v1.12.1 - 2015-03-18
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Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS text 2.0.15
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RequireJS 2.3.6
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JavaScript Extension Toolkit (JET), v. 9.2.0 (Oracle)

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# Oracle JET 9.2.0
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Chai - v4.2.0

<https://github.com/chaijs/chai>

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expression-eval - v2.0.0

<https://github.com/donmccurdy/expression-eval>

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jsep - v0.3.4

<https://github.com/soney/jsep>
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petit-dom - v0.2.2

<https://github.com/yelouafi/petit-dom>

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webcomponents/custom-elements - v1.1.2

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Hammer.JS - v2.0.8 - 2016-04-22
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Normalize.scss
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RequireJS i18n 2.0.2
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jsTree 1.0-rc3 <http://jstree.com/>
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ES6-Promise

<https://github.com/stefanpenner/es6-promise>

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jQuery UI - v1.12.1 - 2015-03-18

<http://jqueryui.com>

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JS Signals
Author: Miller Medeiros
Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS text 2.0.15
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RequireJS 2.3.6

<http://github.com/jrburke/requirejs>

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Knockout JavaScript library v3.5.1

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* webcomponents/custom-elements - v1.1.2

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JavaScript Extension Toolkit (JET) v. 2.0.2, 2.1.0, 2.2.0

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=== Knockout.js 3.4.0 ===

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=== Knockout Mapping plugin v2.4.1 ===

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=== knockout-amd-helpers 0.7.3 ===

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=== Normalize.css ===

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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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=== ES6-Promise v1.0.0 ===

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=== jQuery UI - v1.11.4 ===

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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/*! Hammer.JS - v2.0.4 - 2014-09-28

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- * org.eclipse.jetty.orbit:javax.security.auth.message

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- * org.eclipse.jetty.orbit:javax.mail.glassfish

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- * org.ow2.asm:asm-commons
- * org.ow2.asm:asm

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- * org.apache.taglibs:taglibs-standard-spec
- * org.apache.taglibs:taglibs-standard-impl

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- * org.mortbay.jasper:apache-jsp
- * org.apache.tomcat:tomcat-jasper
- * org.apache.tomcat:tomcat-juli
- * org.apache.tomcat:tomcat-jsp-api
- * org.apache.tomcat:tomcat-el-api
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-api
- * org.apache.tomcat:tomcat-util-scan
- * org.apache.tomcat:tomcat-util
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- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-el-api

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- * org.eclipse.jetty.toolchain:jetty-schemas

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- * jakarta.servlet:jakarta.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

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* org.apache.tomcat:tomcat-jsp-api
* org.apache.tomcat:tomcat-el-api
* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-api
* org.apache.tomcat:tomcat-util-scan
* org.apache.tomcat:tomcat-util
* org.mortbay.jasper:apache-el
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* org.apache.tomcat:tomcat-el-api
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```

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SPDX:MIT
```

```
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```

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```
== Dependency
ASM: a very small and fast Java bytecode manipulation framework
```

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== License Type
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- * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.

- * org.eclipse.jetty.orbit:javax.security.auth.message

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- * org.eclipse.jetty.orbit:javax.mail.glassfish

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- * java.sun.security.ssl

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```
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* org.apache.tomcat:tomcat-jasper
* org.apache.tomcat:tomcat-juli
* org.apache.tomcat:tomcat-jsp-api
* org.apache.tomcat:tomcat-el-api
* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-api
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* org.apache.tomcat:tomcat-jasper
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* org.apache.tomcat:tomcat-jsp-api
* org.apache.tomcat:tomcat-el-api
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* org.apache.tomcat:tomcat-util-scan
* org.apache.tomcat:tomcat-util
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```
* org.eclipse.jetty.toolchain:jetty-schemas
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- * org.eclipse.jetty.orbit:javax.mail.glassfish

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- * java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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```
org.mortbay.jasper:apache-jsp
  org.apache.tomcat:tomcat-jasper
  org.apache.tomcat:tomcat-juli
  org.apache.tomcat:tomcat-jsp-api
  org.apache.tomcat:tomcat-el-api
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-api
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util
```

```
org.mortbay.jasper:apache-el
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-el-api
```

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

```
org.eclipse.jetty.toolchain:jetty-schemas
```

Assorted

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Fourth Party dependencies

org.slf4j: slf4j-api
org.slf4j: slf4j-jdk14

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JLine, v. 3.25.0 (Marc Prud'hommeaux)

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org.slf4j: slf4j-api
org.slf4j: slf4j-jdk14

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JLine, v. 3.23.0 (Marc Prud'hommeaux)

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JLine, v. 3.21.0 (Marc Prud'hommeaux)

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4th Party Dependency

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org.fusesource.jansi version 1.18
org.apache.sshd 2.1 to 2.4
org.apache.felix.gogo.runtime 1.1.2
org.apache.felix.gogo.jline 1.1.4
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org.fusesource.jansi version 1.18
org.apache.sshd 2.1 to 2.4
org.apache.felix.gogo.runtime 1.1.2
org.apache.felix.gogo.jline 1.1.4

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org.fusesource.jansi version 1.17.1
org.apache.sshd 2.1 to 3
org.apache.felix.gogo.runtime 1.1.2
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```
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```

```
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Ty Coon, President of Vice
```

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The README.md also had licensing information:

```
keepalived: Loadbalancing & High-Availability
=====
```

```
[[Keepalived CI] (https://github.com/acassen/keepalived/actions/workflows/build.yml/
badge.svg)] (https://github.com/acassen/keepalived/actions/workflows/build.yml)
[[Coverity Status] (https://scan.coverity.com/projects/22678/badge.svg)] (https://
scan.coverity.com/projects/acassen-keepalived)
[[Language grade: C/C++] (https://img.shields.io/lgtm/grade/cpp/g/acassen/keepalived.svg?
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logo=lgtm&logoWidth=18)] (https://lgtm.com/projects/g/acassen/keepalived/alerts/)
[[keepalived] (https://snapcraft.io/keepalived/badge.svg)] (https://snapcraft.io/
keepalived)
[[Twitter Follow] (https://img.shields.io/twitter/url/http/shields.io.svg?
style=social&label=Follow)] (https://twitter.com/keepalived)
```

The main goal of this project is to provide simple and robust facilities for loadbalancing and high-availability to Linux system and Linux based infrastructures. Loadbalancing framework relies on well-known and widely used Linux Virtual Server (IPVS) kernel module providing Layer4 loadbalancing. Keepalived implements a set of checkers to dynamically and adaptively maintain and manage loadbalanced server pool according their health. On the other hand high-availability is achieved by the Virtual Router Redundancy Protocol (VRRP). VRRP is a fundamental brick for router failover. In addition, Keepalived implements a set of hooks to the VRRP finite state machine providing low-level and high-speed protocol interactions. In order to offer fastest network failure detection, Keepalived implements the Bidirectional Forwarding Detection (BFD) protocol. VRRP state transition can take into account BFD hints to drive fast state transition. Keepalived frameworks can be used independently or all together to provide resilient infrastructures.

Keepalived implementation is based on an I/O multiplexer to handle a strong multi-threading framework. All the events process use this I/O multiplexer.

To build keepalived from the git source tree, you will need to have autoconf, automake and various libraries installed. See the INSTALL file for details of what needs to be installed and what needs to be executed before building keepalived.

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Current COPYRIGHT:

```
/*
 * Soft:          Keepalived is a failover program for the LVS project
```

```

*          <www.linuxvirtualserver.org>. It monitor & manipulate
*          a loadbalanced server pool using multi-layer checks.
*
* Part:      DNS checker
*
* Author:    Masanobu Yasui, <yasui-m@klab.com>
*            Masaya Yamamoto, <yamamoto-ma@klab.com>
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*/

```

```

=====
Dependency on ipset-libs 7.1-1
=====

```

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keepalived, v. 1.3.5-19 (Alexandre Cassen)

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infrastructures. Loadbalancing framework relies on well-known and widely
used Linux Virtual Server (IPVS) kernel module providing Layer4 loadbalancing.
Keepalived implements a set of checkers to dynamically and adaptively maintain
and manage loadbalanced server pool according their health. On the other hand
high-availability is achieved by the Virtual Router Redundancy Protocol (VRRP).
VRRP is a fundamental brick for router failover. In addition, Keepalived
implements a set of hooks to the VRRP finite state machine providing low-level
and high-speed protocol interactions. In order to offer fastest network
failure detection, Keepalived implements the Bidirectional Forwarding Detection
(BFD) protocol. VRRP state transition can take into account BFD hints to drive
fast state transition. Keepalived frameworks can be used independently or all
together to provide resilient infrastructures.
Keepalived implementation is based on an I/O multiplexer to handle a

```

strong multi-threading framework. All the events process use this I/O multiplexer.

To build keepalived from the git source tree, you will need to have autoconf, automake and various libraries installed. See the INSTALL file for details of what needs to be installed and what needs to be executed before building keepalived.

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org.apache.sshd » sshd-core
org.apache.sshd » sshd-common
org.apache.sshd » sshd-mina
org.apache.sshd » sshd-sftp

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== NAME OF Subcomponent 1 : sshd-core

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== License Type : Apache 2.0

== NAME OF Subcomponent 2 : sshd-common

.

== License Type : Apache 2.0

== NAME OF Subcomponent 3 : sshd-mina

.

== License Type : Apache 2.0

== NAME OF Subcomponent 4 : sshd-sftp

.

== License Type : Apache 2.0

=====

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Dependency #3

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org.apache.sshd » sshd-common
org.apache.sshd » sshd-mina
org.apache.sshd » sshd-sftp

=====

== NAME OF Subcomponent 1 : sshd-core

.

== License Type : Apache 2.0

== NAME OF Subcomponent 2 : sshd-common

.

== License Type : Apache 2.0

== NAME OF Subcomponent 3 : sshd-mina

.

== License Type : Apache 2.0

== NAME OF Subcomponent 4 : sshd-sftp

.

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=====
===== 4th party Dependencies =====

Dependency #1

NAME: SLF4J-API

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Dependency #2

NAME: JCL-OVER-SLF4J

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spring-beans
spring-context-indexer
spring-context-support
spring-context
spring-core
spring-expression
spring-instrument
spring-jcl
spring-jdbc
spring-jms
spring-messaging
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(Notice same as org.apache.sshd:sshd-core)  
  
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History and License

History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <https://www.zope.org/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release

Derived from

Year

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GPL compatible?

0.9.0 thru 1.2

n/a

1991-1995

CWI

yes

1.3 thru 1.5.2

1.2

1995-1999

CNRI

yes

1.6

1.5.2

2000

CNRI

no

2.0

1.6

2000

BeOpen.com

no

1.6.1

1.6

2001

CNRI

no

2.1

2.0+1.6.1

2001

PSF

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2.0.1

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2.1+2.0.1

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2.1.1.2

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2002

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2.1.1.3

2.1.1.2

2002

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yes

2.2 and above

2.1.1.1

2001-now

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Mersenne Twister

The `_random` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>.

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard XML Remote Procedure Calls

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)

djb (supercop/crypto_auth/siphash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

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Jean-loup Gailly
jloup@gzip.org
cfuhash

Mark Adler
madler@alumni.caltech.edu

The implementation of the hash table used by the tracemalloc is based on the cfuhash project:

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History of the software

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <https://www.zope.org/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.2
1995-1999
CNRI
yes
1.6
1.5.2
2000
CNRI
no
2.0
1.6
2000
BeOpen.com
no
1.6.1
1.6
2001
CNRI
no
2.1
2.0+1.6.1
2001
PSF
no
2.0.1

2.0+1.6.1

2001

PSF

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2.1.1

2.1+2.0.1

2001

PSF

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2.1.2

2.1.1

2002

PSF

yes

2.1.3

2.1.2

2002

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion

between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.

- Arguments more compliant with Python standard

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

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djb ([super-cop/crypto_auth/siphash24/little2](https://github.com/super-cop/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

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Jean-loup Gailly
jloup@gzip.org
cfuhash

Mark Adler
madler@alumni.caltech.edu

The implementation of the hash table used by the tracemalloc is based on the cfuhash project:

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <https://www.zope.org/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.

- Arguments more compliant with Python standard

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)

djb (supercop/crypto_auth/siphash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

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Jean-loup Gailly
jloup@gzip.org
cfuhash

Mark Adler
madler@alumni.caltech.edu

The implementation of the hash table used by the tracemalloc is based on the cfuhash project:

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```
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A. HISTORY OF THE SOFTWARE
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```

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Coded by Takuji Nishimura and Makoto Matsumoto.

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- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
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Original location:
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Solution inspired by code from:
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jloup@gzip.org

Mark Adler
madler@alumni.caltech.edu

cfuhash

The implementation of the hash table used by the tracemalloc is based on the cfuhash project:

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rdma-core, v. 34.0-1.0.5 (Kernel.org)

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