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The Apache Foundation	HttpComponents HttpClient 4.5.14	See HttpComponents HttpClient 4.5.14 .
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FasterXML, LLC	Jackson Databind 2.17.1	See Jackson Databind, version 2.17.1 .
FasterXML, LLC	jackson-datatype-jsr310 2.17.1	See jackson-datatype-jsr310, version 2.17.1 .

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Google	JavaEWAH, version 1.1.13	See JavaEWAH, version 1.1.13 .
Shigeru Chiba	Javassist 3.29.2-GA	See Javassist, version 3.29.2-GA
Shigeru Chiba	Javassist 3.30.2-GA	See Javassist 3.30.2-GA .
Jason Hunter and Brett McLaughlin	jdom2, version 2.0.6.1	See jdom2, version 2.0.6.1 .
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Eclipse Foundation	JGit Core, version 5.13.3.202401111512-r	See JGit Core, version 5.13.3.202401111512-r .
Network New Technologies, Inc.	json-schema-validator 1.3.3	See json-schema-validator 1.3.3 .
cliftonlabs	json-simple, version 4.0.1	See json-simple, version 4.0.1 .
jsoup.org	jsoup, version 1.15.3	See jsoup, version 1.15.3 .
JSQLParser	JSQLParser 4.6	See JSQLParser 4.6 .
Apache	Log4j-API 2.20.0	See Log4j-API 2.20.0 .
Apache	log4j-core 2.19.0	See log4j-core, versions 2.19.0, 2.20.0 .
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simmetrics	simmetrics, version 4.1.1	See simmetrics, version 4.1.1 .
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QOS.ch	slf4j-jdk14 version 2.0.6	See slf4j-jdk14 version 2.0.6 .
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This software uses the SSL libraries from the Jetty project written by mortbay.org.
Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

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

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org.mortbay.jasper:apache-el
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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

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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
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- org.apache.tomcat:tomcat-jasper

- org.apache.tomcat:tomcat-juli

- org.apache.tomcat:tomcat-jsp-api

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- 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-jsp-api

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

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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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org.apache.taglibs:taglibs-standard-impl

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

```
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MortBay
```

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

```
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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Mortbay
```

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

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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
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util
```

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

Mortbay

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api

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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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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

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== Dependency
com.fasterxml.jackson:jackson-bom

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com.google.errorprone:error_prone_annotations

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org.apache.hadoop.thirdparty:hadoop-shaded-protobuf_3_7

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./zookeeper-client/zookeeper-client-c/src/hashtable/hashtable.h
./zookeeper-client/zookeeper-client-c/src/hashtable/hashtable_itr.c
./zookeeper-client/zookeeper-client-c/src/hashtable/hashtable_itr.h
./zookeeper-client/zookeeper-client-c/src/hashtable/hashtable_private.h
./zookeeper-contrib/zookeeper-contrib-loggraph/src/main/resources/
webapp/org/apache/zookeeper/graph/resources/yui-min.js
./zookeeper-docs/src/main/resources/markdown/skin/prototype.js
```

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```
./zookeeper-contrib/zookeeper-contrib-loggraph/src/main/resources/
webapp/org/apache/zookeeper/graph/resources/date.format.js
./zookeeper-contrib/zookeeper-contrib-loggraph/src/main/resources/
webapp/org/apache/zookeeper/graph/resources/g.bar.js
./zookeeper-contrib/zookeeper-contrib-loggraph/src/main/resources/
webapp/org/apache/zookeeper/graph/resources/g.dot.js
./zookeeper-contrib/zookeeper-contrib-loggraph/src/main/resources/
webapp/org/apache/zookeeper/graph/resources/g.line.js
./zookeeper-contrib/zookeeper-contrib-loggraph/src/main/resources/
webapp/org/apache/zookeeper/graph/resources/g.pie.js
./zookeeper-contrib/zookeeper-contrib-loggraph/src/main/resources/
webapp/org/apache/zookeeper/graph/resources/g.raphael.js
./zookeeper-contrib/zookeeper-contrib-loggraph/src/main/resources/
webapp/org/apache/zookeeper/graph/resources/raphael.js
```

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```
./zookeeper-contrib/zookeeper-contrib-zooinpector/src/main/java/com/nitido/
utils/toaster/Toaster.java
```

----- (separator) -----

== Dependency

```
org.codehaus.jackson:jackson-jaxrs
org.codehaus.jackson:jackson-xc
org.codehaus.jettison:jettison
```

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```

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org.jetbrains.kotlin:kotlin-stdlib-common
org.jetbrains.kotlin:kotlin-stdlib

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Notes

None
Text

```


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datanode/checker/TimeoutFuture.java

ch.qos.reload4j:reload4j:1.2.22
com.aliyun:aliyun-java-sdk-core:4.5.10
com.aliyun:aliyun-java-sdk-kms:2.11.0
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com.fasterxml.woodstox:woodstox-core:5.4.0
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com.google:guice:4.0
com.google:guice-servlet:4.0
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commons-collections:commons-collections:3.2.2
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commons-net:commons-net:3.9.0
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io.reactivex:rxnetty:0.4.20
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javax.inject:javax.inject:1
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net.minidev:accessors-smart:1.2
org.apache.avro:avro:1.9.2
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org.apache.commons:commons-compress:1.26.1
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org.apache.commons:commons-csv:1.9.0
org.apache.commons:commons-digester:1.8.1
org.apache.commons:commons-lang3:3.12.0
org.apache.commons:commons-math3:3.6.1
org.apache.commons:commons-text:1.10.0
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org.apache.htrace:htrace-core:3.1.0-incubating
org.apache.htrace:htrace-core4:4.1.0-incubating
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org.apache.httpcomponents:httpcore:4.4.13
org.apache.kafka:kafka-clients:2.8.2
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org.apache.kerby:kerb-client:2.0.3
org.apache.kerby:kerb-common:2.0.3
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org.eclipse.jetty:jetty-util-ajax:9.4.53.v20231009
org.eclipse.jetty:jetty-webapp:9.4.53.v20231009
org.eclipse.jetty:jetty-xml:9.4.53.v20231009
org.eclipse.jetty.websocket:javax-websocket-client-impl:9.4.53.v20231009
org.eclipse.jetty.websocket:javax-websocket-server-impl:9.4.53.v20231009
org.ehcache:ehcache:3.8.2
org.ini4j:ini4j:0.5.4


```
org.lz4:lz4-java:1.7.1
org.objenesis:objenesis:2.6
org.xerial.snappy:snappy-java:1.1.10.4
org.yaml:snakeyaml:2.0
org.wildfly.openssl:wildfly-openssl:1.1.3.Final
software.amazon.awssdk:bundle:jar:2.25.53
```

This product bundles various third-party components under other open source licenses. This section summarizes those components and their licenses. See licenses-binary/ for text of these licenses.

BSD 2-Clause

hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

com.github.luben:zstd-jni:1.4.9-1
dnsjava:dnsjava:2.1.7
org.codehaus.woodstox:stax2-api:4.2.1

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js
leveldb v1.13

com.google.protobuf:protobuf-java:2.5.0
com.google.protobuf:protobuf-java:3.6.1
com.google.re2j:re2j:1.1
com.jcraft:jsch:0.1.55
com.thoughtworks.paranamer:paranamer:2.3
jakarta.activation:jakarta.activation-api:1.2.1
org.fusesource.leveldbjni:leveldbjni-all:1.8
org.jline:jline:3.9.0
org.hamcrest:hamcrest-core:1.3
org.ow2.asm:asm:5.0.4
org.ow2.asm:asm-commons:6.0
org.ow2.asm:asm-tree:6.0

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```

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-nvd3-1.0.9.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-
route-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.6.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/
static/dt-1.11.5/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/
static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/
static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/resources/TERMINAL

```

```

bootstrap v3.3.6
broccoli-asset-rev v2.4.2
broccoli-funnel v1.0.1
datatables v1.11.5
em-helpers v0.5.13
em-table v0.1.6
ember v2.2.0
ember-array-contains-helper v1.0.2
ember-bootstrap v0.5.1
ember-cli v1.13.13
ember-cli-app-version v1.0.0
ember-cli-babel v5.1.6
ember-cli-content-security-policy v0.4.0
ember-cli-dependency-checker v1.2.0
ember-cli-htmlbars v1.0.2
ember-cli-htmlbars-inline-precompile v0.3.1
ember-cli-ic-ajax v0.2.1
ember-cli-inject-live-reload v1.4.0
ember-cli-jquery-ui v0.0.20
ember-cli-qunit v1.2.1
ember-cli-release v0.2.8
ember-cli-shims v0.0.6
ember-cli-sri v1.2.1
ember-cli-test-loader v0.2.1
ember-cli-uglify v1.2.0
ember-d3 v0.1.0
ember-data v2.1.0
ember-disable-proxy-controllers v1.0.1
ember-export-application-global v1.0.5
ember-load-initializers v0.1.7
ember-qunit v0.4.16
ember-qunit-notifications v0.1.0

```

```

ember-resolver v2.0.3
ember-spin-spinner v0.2.3
ember-truth-helpers v1.2.0
jquery v2.1.4
jquery-ui v1.11.4
loader.js v3.3.0
momentjs v2.10.6
qunit v1.19.0
select2 v4.0.0
snippet-ss v1.11.0
spin.js v2.3.2

com.microsoft.azure:azure-cosmosdb:2.4.5
com.microsoft.azure:azure-cosmosdb-commons:2.4.5
com.microsoft.azure:azure-cosmosdb-direct:2.4.5
com.microsoft.azure:azure-cosmosdb-gateway:2.4.5
com.microsoft.azure:azure-data-lake-store-sdk:2.3.3
com.microsoft.azure:azure-keyvault-core:1.0.0
com.microsoft.sqlserver:mssql-jdbc:6.2.1.jre7
org.bouncycastle:bcpkix-jdk18on:1.78.1
org.bouncycastle:bcprov-jdk18on:1.78.1
org.bouncycastle:bcutil-jdk18on:1.78.1
org.checkerframework:checker-qual:2.5.2
org.codehaus.mojo:animal-sniffer-annotations:1.21
org.jruby.jcodings:jcodings:1.0.13
org.jruby.joni:joni:2.1.2
org.ow2.jalgo:jalgo:43.0
org.slf4j:jul-to-slf4j:1.7.36
org.slf4j:slf4j-api:1.7.36
org.slf4j:slf4j-reload4j:1.7.36

```

```

CDDL 1.1 + GPLv2 with classpath exception
-----

```

```

com.github.pjfanning:jersey-json:1.22.0
com.sun.jersey:jersey-client:1.19.4
com.sun.jersey:jersey-core:1.19.4
com.sun.jersey:jersey-guice:1.19.4
com.sun.jersey:jersey-server:1.19.4
com.sun.jersey:jersey-servlet:1.19.4
com.sun.xml.bind:jaxb-impl:2.2.3-1
javax.annotation:javax.annotation-api:1.3.2
javax.cache:cache-api:1.1.1
javax.servlet:javax.servlet-api:3.1.0
javax.servlet.jsp:jsp-api:2.1
javax.websocket:javax.websocket-api:1.0
javax.ws.rs:jsr311-api:1.1.1
javax.xml.bind:jaxb-api:2.2.11

```

```

Eclipse Public License 1.0
-----

```

```

junit:junit:4.13.2
org.jacoco:org.jacoco.agent:0.8.5

```

HSQL License

org.hsqldb:hsqldb:2.7.1

JDOM License

org.jdom:jdom2:2.0.6.1

Public Domain

aopalliance:aopalliance:1.0

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css and js files)
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-nvd3-1.0.9.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-route-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.6.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.11.5/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/


```
static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/resources/TERMINAL
```

=====

```
For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:
```

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* Alec Wysoker
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The following provides more details on the included cryptographic software:

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Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

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./src/main/resources/META-INF/NOTICE

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

- * LICENSE:
 - * [license/LICENSE.hyper-hpack.txt](#) (MIT License)
- * HOMEPAGE:
 - * <https://github.com/python-hyper/hpack/>

This product contains a modified version of 'HPACK', a Java implementation of

the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be obtained at:

- * LICENSE:
 - * `license/LICENSE.nghttp2-hpack.txt` (MIT License)
- * HOMEPAGE:
 - * <https://github.com/nghttp2/nghttp2/>

This product contains a modified portion of 'Apache Commons Lang', a Java library provides utilities for the `java.lang` API, which can be obtained at:

- * LICENSE:
 - * `license/LICENSE.commons-lang.txt` (Apache License 2.0)
- * HOMEPAGE:
 - * <https://commons.apache.org/proper/commons-lang/>

This product contains the Maven wrapper scripts from 'Maven Wrapper', that provides an easy way to ensure a user has everything necessary to run the Maven build.

- * LICENSE:
 - * `license/LICENSE.mvn-wrapper.txt` (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/takari/maven-wrapper>

This product contains the `dnsinfo.h` header file, that provides a way to retrieve the system DNS configuration on MacOS.

This private header is also used by Apple's open source `mDNSResponder` (<https://opensource.apple.com/tarballs/mDNSResponder/>).

- * LICENSE:
 - * `license/LICENSE.dnsinfo.txt` (Apple Public Source License 2.0)
- * HOMEPAGE:
 - * <https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h>

This product optionally depends on 'Brotli4j', Brotli compression and decompression for Java., which can be obtained at:

- * LICENSE:
 - * `license/LICENSE.brotli4j.txt` (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/hyperxpro/Brotli4j>

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./license/LICENSE.dnsinfo.txt
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./license/LICENSE.harmony.txt
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./license/LICENSE.jfastlz.txt
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./license/LICENSE.lzma-java.txt
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./license/LICENSE.protobuf.txt
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./license/LICENSE.jboss-marshalling.txt

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com.fasterxml.woodstox:woodstox-core:5.4.0
com.github.davidmoten:rxjava-extras:0.8.0.17
com.github.stephenc.jcip:jcip-annotations:1.0-1
com.google:guice:4.0
com.google:guice-servlet:4.0
com.google.api.grpc:proto-google-common-protos:1.0.0
com.google.code.gson:2.9.0
com.google.errorprone:error_prone_annotations:2.5.1
com.google.j2objc:j2objc-annotations:1.3
com.google.json-simple:json-simple:1.1.1
com.google.guava:failureaccess:1.0
com.google.guava:guava:20.0
com.google.guava:guava:32.0.1-jre
com.google.guava:listenablefuture:9999.0-empty-to-avoid-conflict-with-guava
com.microsoft.azure:azure-storage:7.0.0
com.nimbusds:nimbus-jose-jwt:9.37.2
com.zaxxer:HikariCP:4.0.3
commons-beanutils:commons-beanutils:1.9.4
commons-cli:commons-cli:1.5.0
commons-codec:commons-codec:1.15
commons-collections:commons-collections:3.2.2
commons-daemon:commons-daemon:1.0.13
commons-io:commons-io:2.16.1
commons-net:commons-net:3.9.0
de.ruedigermoeller:fst:2.50
io.grpc:grpc-api:1.53.0
io.grpc:grpc-context:1.53.0
io.grpc:grpc-core:1.53.0
io.grpc:grpc-netty:1.53.0
io.grpc:grpc-protobuf:1.53.0
io.grpc:grpc-protobuf-lite:1.53.0
io.grpc:grpc-stub:1.53.0
io.netty:netty-all:4.1.100.Final
io.netty:netty-buffer:4.1.100.Final
io.netty:netty-codec:4.1.100.Final
io.netty:netty-codec-dns:4.1.100.Final
io.netty:netty-codec-haproxy:4.1.100.Final
io.netty:netty-codec-http:4.1.100.Final
io.netty:netty-codec-http2:4.1.100.Final
io.netty:netty-codec-memcache:4.1.100.Final
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io.netty:netty-common:4.1.100.Final

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io.netty:netty-handler-proxy:4.1.100.Final
io.netty:netty-resolver:4.1.100.Final
io.netty:netty-resolver-dns:4.1.100.Final
io.netty:netty-transport:4.1.100.Final
io.netty:netty-transport-rxtx:4.1.100.Final
io.netty:netty-transport-sctp:4.1.100.Final
io.netty:netty-transport-udt:4.1.100.Final
io.netty:netty-transport-classes-epoll:4.1.100.Final
io.netty:netty-transport-native-unix-common:4.1.100.Final
io.netty:netty-transport-classes-kqueue:4.1.100.Final
io.netty:netty-resolver-dns-classes-macos:4.1.100.Final
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io.netty:netty-resolver-dns-native-macos:4.1.100.Final
io.opencensus:opencensus-api:0.12.3
io.opencensus:opencensus-contrib-grpc-metrics:0.12.3
io.reactivex:rxjava:1.3.8
io.reactivex:rxjava-string:1.1.1
io.reactivex:rxnetty:0.4.20
io.swagger:swagger-annotations:1.5.4
javax.inject:javax.inject:1
net.java.dev.jna:jna:5.2.0
net.minidev:accessors-smart:1.2
org.apache.avro:avro:1.9.2
org.apache.avro:avro:1.11.3
org.apache.commons:commons-collections4:4.2
org.apache.commons:commons-compress:1.26.1
org.apache.commons:commons-configuration2:2.10.1
org.apache.commons:commons-csv:1.9.0
org.apache.commons:commons-digester:1.8.1
org.apache.commons:commons-lang3:3.12.0
org.apache.commons:commons-math3:3.6.1
org.apache.commons:commons-text:1.10.0
org.apache.commons:commons-validator:1.6
org.apache.curator:curator-client:5.2.0
org.apache.curator:curator-framework:5.2.0
org.apache.curator:curator-recipes:5.2.0
org.apache.hbase:hbase-annotations:1.7.1
org.apache.hbase:hbase-client:1.7.1
org.apache.hbase:hbase-common:1.7.1
org.apache.hbase:hbase-protocol:1.7.1
org.apache.htrace:htrace-core:3.1.0-incubating
org.apache.htrace:htrace-core4:4.1.0-incubating
org.apache.httpcomponents:httpclient:4.5.13
org.apache.httpcomponents:httpcore:4.4.13
org.apache.kafka:kafka-clients:3.4.0
org.apache.kerby:kerb-admin:2.0.3
org.apache.kerby:kerb-client:2.0.3
org.apache.kerby:kerb-common:2.0.3
org.apache.kerby:kerb-core:2.0.3
org.apache.kerby:kerb-crypto:2.0.3
org.apache.kerby:kerb-identity:2.0.3
org.apache.kerby:kerb-server:2.0.3
org.apache.kerby:kerb-simplekdc:2.0.3
org.apache.kerby:kerb-util:2.0.3
org.apache.kerby:kerby-asn1:2.0.3
org.apache.kerby:kerby-config:2.0.3

```

org.apache.kerby:kerby-pkix:2.0.3
org.apache.kerby:kerby-util:2.0.3
org.apache.kerby:kerby-xdr:2.0.3
org.apache.kerby:token-provider:2.0.3
org.apache.sshd:sshd-common:2.11.0
org.apache.sshd:sshd-core:2.11.0
org.apache.sshd:sshd-sftp:2.11.0
org.apache.solr:solr-solrj:8.11.2
org.apache.yetus:audience-annotations:0.5.0
org.apache.zookeeper:zookeeper:3.8.4
org.codehaus.jettison:jettison:1.5.4
org.eclipse.jetty:jetty-annotations:9.4.53.v20231009
org.eclipse.jetty:jetty-http:9.4.53.v20231009
org.eclipse.jetty:jetty-io:9.4.53.v20231009
org.eclipse.jetty:jetty-jndi:9.4.53.v20231009
org.eclipse.jetty:jetty-plus:9.4.53.v20231009
org.eclipse.jetty:jetty-security:9.4.53.v20231009
org.eclipse.jetty:jetty-server:9.4.53.v20231009
org.eclipse.jetty:jetty-servlet:9.4.53.v20231009
org.eclipse.jetty:jetty-util:9.4.53.v20231009
org.eclipse.jetty:jetty-util-ajax:9.4.53.v20231009
org.eclipse.jetty:jetty-webapp:9.4.53.v20231009
org.eclipse.jetty:jetty-xml:9.4.53.v20231009
org.eclipse.jetty.websocket:javax-websocket-client-impl:9.4.53.v20231009
org.eclipse.jetty.websocket:javax-websocket-server-impl:9.4.53.v20231009
org.ehcache:ehcache:3.8.2
org.ini4j:ini4j:0.5.4
org.lz4:lz4-java:1.7.1
org.objenesis:objenesis:2.6
org.xerial.snappy:snappy-java:1.1.10.4
org.yaml:snakeyaml:2.0
org.wildfly.openssl:wildfly-openssl:1.1.3.Final
software.amazon.awssdk:bundle:jar:2.24.6

```

This product bundles various third-party components under other open source licenses. This section summarizes those components and their licenses. See licenses-binary/ for text of these licenses.

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```

hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/io/
compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/
tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|
unlinkat}.h

```

```

com.github.luben:zstd-jni:1.5.2-1
dnsjava:dnsjava:3.6.1
org.codehaus.woodstox:stax2-api:4.2.1

```

BSD 3-Clause

```
hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/
bulk_crc32_x86.c
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js
leveldb v1.13
```

```
com.google.protobuf:protobuf-java:2.5.0
com.google.protobuf:protobuf-java:3.25.3
com.google.re2j:re2j:1.1
com.jcraft:jsch:0.1.55
com.thoughtworks.paranamer:paranamer:2.3
jakarta.activation:jakarta.activation-api:1.2.1
org.fusesource.leveldbjni:leveldbjni-all:1.8
org.jline:jline:3.9.0
org.hamcrest:hamcrest-core:1.3
org.ow2.asm:asm:5.0.4
org.ow2.asm:asm-commons:6.0
org.ow2.asm:asm-tree:6.0
```

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```
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-nvd3-1.0.9.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-
route-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.6.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/
static/dt-1.11.5/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/
static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/
static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/resources/TERMINAL

bootstrap v3.3.6
broccoli-asset-rev v2.4.2
broccoli-funnel v1.0.1
datatables v1.11.5
em-helpers v0.5.13
```

em-table v0.1.6
 ember v2.2.0
 ember-array-contains-helper v1.0.2
 ember-bootstrap v0.5.1
 ember-cli v1.13.13
 ember-cli-app-version v1.0.0
 ember-cli-babel v5.1.6
 ember-cli-content-security-policy v0.4.0
 ember-cli-dependency-checker v1.2.0
 ember-cli-htmlbars v1.0.2
 ember-cli-htmlbars-inline-precompile v0.3.1
 ember-cli-ic-ajax v0.2.1
 ember-cli-inject-live-reload v1.4.0
 ember-cli-jquery-ui v0.0.20
 ember-cli-qunit v1.2.1
 ember-cli-release v0.2.8
 ember-cli-shims v0.0.6
 ember-cli-sri v1.2.1
 ember-cli-test-loader v0.2.1
 ember-cli-uglify v1.2.0
 ember-d3 v0.1.0
 ember-data v2.1.0
 ember-disable-proxy-controllers v1.0.1
 ember-export-application-global v1.0.5
 ember-load-initializers v0.1.7
 ember-qunit v0.4.16
 ember-qunit-notifications v0.1.0
 ember-resolver v2.0.3
 ember-spin-spinner v0.2.3
 ember-truth-helpers v1.2.0
 jquery v2.1.4
 jquery-ui v1.11.4
 loader.js v3.3.0
 momentjs v2.10.6
 qunit v1.19.0
 select2 v4.0.0
 snippet-ss v1.11.0
 spin.js v2.3.2

 com.microsoft.azure:azure-cosmosdb:2.4.5
 com.microsoft.azure:azure-cosmosdb-commons:2.4.5
 com.microsoft.azure:azure-cosmosdb-direct:2.4.5
 com.microsoft.azure:azure-cosmosdb-gateway:2.4.5
 com.microsoft.azure:azure-data-lake-store-sdk:2.3.3
 com.microsoft.azure:azure-keyvault-core:1.0.0
 com.microsoft.sqlserver:mssql-jdbc:6.2.1.jre7
 org.bouncycastle:bcpkix-jdk18on:1.78.1
 org.bouncycastle:bcprov-jdk18on:1.78.1
 org.bouncycastle:bcutil-jdk18on:1.78.1
 org.checkerframework:checker-qual:3.8.0
 org.codehaus.mojo:animal-sniffer-annotations:1.21
 org.jruby.jcodings:jcodings:1.0.13
 org.jruby.joni:joni:2.1.2
 org.ojalgo:ojalgo:43.0
 org.slf4j:jul-to-slf4j:1.7.36
 org.slf4j:slf4j-api:1.7.36
 org.slf4j:slf4j-reload4j:1.7.36

CDDL 1.1 + GPLv2 with classpath exception

com.github.pjfanning:jersey-json:1.22.0
com.sun.jersey:jersey-client:1.19.4
com.sun.jersey:jersey-core:1.19.4
com.sun.jersey:jersey-guice:1.19.4
com.sun.jersey:jersey-server:1.19.4
com.sun.jersey:jersey-servlet:1.19.4
com.sun.xml.bind:jaxb-impl:2.2.3-1
javax.annotation:javax.annotation-api:1.3.2
javax.cache:cache-api:1.1.1
javax.servlet:javax.servlet-api:3.1.0
javax.servlet.jsp:jsp-api:2.1
javax.websocket:javax.websocket-api:1.0
javax.ws.rs:jsr311-api:1.1.1
javax.xml.bind:jaxb-api:2.2.11

Eclipse Public License 1.0

junit:junit:4.13.2
org.jacoco:org.jacoco.agent:0.8.5

HSQL License

org.hsqldb:hsqldb:2.7.1

JDOM License

org.jdom:jdom2:2.0.6.1

Public Domain

aopalliance:aopalliance:1.0

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third_party/rapidxml-1.13/rapidxml/license.txt

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uriparser - RFC 3986 URI parsing library

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apache/zookeeper/graph/resources/g.pie.js
- ./zookeeper-contrib/zookeeper-contrib-loggraph/src/main/resources/webapp/org/
apache/zookeeper/graph/resources/g.raphael.js
- ./zookeeper-contrib/zookeeper-contrib-loggraph/src/main/resources/webapp/org/
apache/zookeeper/graph/resources/raphael.js

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- ./zookeeper-contrib/zookeeper-contrib-zooinspector/src/main/java/com/nitido/
utils/toaster/Toaster.java

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Authors

Brian Wellington (@bwellington), March 12, 2004

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- * HOMEPAGE:
- * <https://github.com/nghttp2/nghttp2/>

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```
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* HOMEPAGE:
* https://github.com/takari/maven-wrapper
```

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* https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/
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```

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* HOMEPAGE:
* https://github.com/hyperxpro/Brotli4j
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https://github.com/netplex/json-smart-v2/tree/master/accessors-smart
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The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by
a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
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File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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Jackson-annotations (com.fasterxml.jackson.core:jackson-annotations)
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jackson-databind (com.fasterxml.jackson.core:jackson-databind)
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Source Code

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<https://github.com/eclipse-ee4j/jsonp>

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Source: <http://search.maven.org/remotecontent?filepath=javax/ws/rs/jsr311-api/1.1.1/jsr311-api-1.1.1-sources.jar>

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JavaEWAH, version 1.1.13

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Javassist, version 3.29.2-GA

Shigeru Chiba

org.javassist:javassist

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It is a class library for editing bytecodes in Java; it enables Java programs to define a new class at runtime and to modify a class file when the JVM loads it. Unlike other similar bytecode editors, Javassist provides two levels of API: source level and bytecode level. If the users use the source-level API, they can edit a class file without knowledge of the specifications of the Java bytecode. The whole API is designed with only the vocabulary of the Java language. You can even specify inserted bytecode in the form of source text; Javassist compiles it on the fly. On the other hand, the bytecode-level API allows the users to directly edit a class file as other editors.

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jersey-server 2.40

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org.jruby.joni:joni

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json-simple, version 4.0.1

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JSQLParser 4.6

JSQLParser

```
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# #L%
###
dual_lgpl_ap2=Dual License GNU LGPL 2.1 or Apache License 2.0
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log4j-1.2-api 2.19.0

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Dependency: org.apache.logging.log4j:log4j-api: 2.19.0

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Jdom-contrib version 1.1.3

The JTS tests module contains source from JDOM Contrib 1.1.3 which is available under the Jdom License [1]. The two files are LineNumberElement.java and LineNumberSAXHandler.java.

Typical users of this library will not need to depend on this module.

[1] <https://github.com/hunterhacker/jdom/blob/master/LICENSE.txt>

GeoTools

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[2] <https://www.osgeo.org/sites/osgeo.org/files/Page/osgeo-bsd-license.txt>

[3] <https://github.com/geotools/geotools/wiki/JTS-ORA-Contribution>

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Log4j - Fourth party dependency for lucene-luke

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Nekohtml - Fourth party dependency for lucene-benchmark

CyberNeko HTML Parser
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NekoHTML is a simple HTML scanner and tag balancer that enables application programmers to parse HTML documents and access the information using standard XML interfaces. The parser can scan HTML files and "fix up" many common mistakes that human (and computer) authors make in writing HTML documents. NekoHTML adds missing parent elements; automatically closes elements with optional end tags; and can handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.

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Xercesimpl - Fourth party optional XML parser implementation to some lucene
libraries, not required when platform provides its own implementation

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NOTICE_Modifications:

Changes to original Implementation:

ADD methods:

Optional<IOException> getException()
to get the exception stored by ICSVWriter, AbstractCSVWriter or CSVWriter

void resetError()
to reset the exception stored by ICSVWriter, AbstractCSVWriter or CSVWriter

ADD Test-Cases:

getExceptionReturnsException()
getExceptionReturnsExceptionUsingPrintWriter()
resetException()
resetError()

to test the added methods

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=====

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OpenCSV 5.9

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opencsv
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