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## Contents

1.1 commons-csv 1.4 1.1.1 Available under license 1.2 commons-math 3.6.1 1.2.1 Available under license 1.3 json-simple 1.1.1 1.3.1 Available under license 1.4 log4j-api 2.11.2 1.4.1 Available under license 1.5 commons-collections 4.1 1.5.1 Available under license 1.6 log4j-slf4j-impl 2.11.2 1.6.1 Available under license 1.7 okio 1.13.0 1.7.1 Available under license 1.8 grpc-context 1.9.0 1.9 grpc-protobuf-lite 1.9.0 1.10 opencensus-api 0.10.0 1.11 opencensus-contrib-grpc-metrics 0.10.0 1.12 okhttp 2.5.0 1.13 junixsocket-common 2.0.4 1.14 junixsocket-native-common 2.0.4 1.15 json-java 20160810 1.15.1 Available under license 1.16 protobuf-java 3.5.1 1.16.1 Available under license 1.17 protobuf-java-util 3.5.1

1.18 grpc-stub 1.9.0 1.19 grpc-core 1.9.0 1.20 instrumentation-api 0.4.3 1.21 grpc-protobuf 1.9.0 1.22 proto-google-common-protos 1.0.0 1.23 bean-validation-api 2.0.1.Final 1.23.1 Available under license 1.24 jsr305 3.0.0 1.24.1 Available under license 1.25 grpc-okhttp 1.9.0 1.25.1 Available under license 1.26 apache-log4j 2.11.2 1.26.1 Available under license 1.27 junixsocket-native 2.0.4 1.27.1 Available under license 1.28 avro 1.9.1 1.28.1 Available under license 1.29 native-lib-loader 2.0.2 1.29.1 Available under license 1.30 jetty-util 9.4.38.v20210224 1.30.1 Available under license 1.31 jetty-client 9.4.38.v20210224 1.31.1 Available under license 1.32 args4j 2.0.28 1.32.1 Available under license 1.33 jetty 9.4.38.v20210224 1.33.1 Available under license 1.34 jetty-proxy 9.4.38.v20210224 1.34.1 Available under license 1.35 jacoco-report 0.8.7 1.35.1 Available under license 1.36 jacoco-core 0.8.7 1.36.1 Available under license 1.37 org.jacoco.agent.rt 0.8.7 1.37.1 Available under license 1.38 jacoco-cli 0.8.7 1.38.1 Available under license 1.39 jacoco-agent 0.8.7 1.39.1 Available under license

#### 1.40 slf4j-log4j 2.1.1.2

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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

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# 1.3 json-simple 1.1.1

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Found in path(s):

\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingTimeout.java
\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/SegmentedByteString.java
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\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Base64.java

1.8 grpc-context 1.9.0

1.9 grpc-protobuf-lite 1.9.0

1.10 opencensus-api 0.10.0

1.11 opencensus-contrib-grpc-metrics 0.10.0

### 1.12 okhttp 2.5.0

### 1.13 junixsocket-common 2.0.4

## 1.14 junixsocket-native-common 2.0.4

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jar/com/google/protobuf/LongArrayList.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-

jar/com/google/protobuf/AbstractParser.java

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\*

/opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Internal.java \*/opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-

jar/com/google/protobuf/Service.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Descriptors.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/ServiceException.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormat.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Utf8.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-

jar/com/google/protobuf/ExtensionLite.java

 $*/opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/type.protobuf/type$ 

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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/SingleFieldBuilder.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/google/protobuf/source\_context.proto

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormatEscaper.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-

jar/com/google/protobuf/TextFormatParseLocation.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/timestamp.proto

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/LazyFieldLite.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/struct.proto
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/opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-

jar/com/google/protobuf/CodedInputStream.java

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jar/com/google/protobuf/FloatArrayList.java

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jar/com/google/protobuf/MessageLiteToString.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/empty.proto

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jar/com/google/protobuf/ExtensionRegistry.java

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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Parser.java

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jar/com/google/protobuf/MapEntry.java

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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/UnmodifiableLazyStringList.java

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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-

jar/com/google/protobuf/InvalidProtocolBufferException.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/any.proto

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jar/com/google/protobuf/Extension.java

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/opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/NioByteString.java

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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/GeneratedMessageV3.java

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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteString.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/AbstractMessageLite.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/SmallSortedMap.java

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/opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MapEntryLite.java

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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/AbstractMessage.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteOutput.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/ExtensionRegistryFactory.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/UnknownFieldSetLite.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/RpcUtil.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/MapFieldLite.java

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 $/opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/wrappers.protobuf/wrapper$ 

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-

jar/com/google/protobuf/DynamicMessage.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/BlockingRpcChannel.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/PrimitiveNonBoxingCollection.java

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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-

jar/com/google/protobuf/ProtocolMessageEnum.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/GeneratedMessageLite.java

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/opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormatParseInfoTree.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/WireFormat.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/google/protobuf/compiler/plugin.proto

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ProtocolStringList.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageLiteOrBuilder.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/BooleanArrayList.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/CodedOutputStream.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/DiscardUnknownFieldsParser.java

\*

/opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/RpcChannel.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/LazyStringArrayList.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/DoubleArrayList.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/RepeatedFieldBuilderV3.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/AbstractProtobufList.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/SingleFieldBuilderV3.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageLite.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/RpcCallback.java

\*

/opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/FieldSet.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MutabilityOracle.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Message.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/descriptor.proto \* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/google/protobuf/field\_mask.proto \* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/UnsafeUtil.java \* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/IterableByteBufferInputStream.java \* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/UnknownFieldSet.java \* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/UnknownFieldSet.java \* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/IntArrayList.java \* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sourcesjar/com/google/protobuf/MessageReflection.java \*

# 1.17 protobuf-java-util 3.5.1

# 1.18 grpc-stub 1.9.0

## 1.19 grpc-core 1.9.0

## 1.20 instrumentation-api 0.4.3

## 1.21 grpc-protobuf 1.9.0

## 1.22 proto-google-common-protos 1.0.0

# 1.23 bean-validation-api 2.0.1.Final

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# 1.24 jsr305 3.0.0

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# 1.29 native-lib-loader 2.0.2

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/\*

Native library loader for extracting and loading native libraries from Java.

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Found in path(s):

\* /opt/cola/permits/1136132045\_1613687322.17/0/native-lib-loader-2-0-2-sources-1-

jar/org/scijava/nativelib/MxSysInfo.java

\* /opt/cola/permits/1136132045\_1613687322.17/0/native-lib-loader-2-0-2-sources-1-jar/org/scijava/nativelib/BaseJniExtractor.java

\* /opt/cola/permits/1136132045\_1613687322.17/0/native-lib-loader-2-0-2-sources-1-jar/org/scijava/nativelib/NativeLibraryUtil.java

/opt/cola/permits/1136132045\_1613687322.17/0/native-lib-loader-2-0-2-sources-1-jar/org/scijava/nativelib/NativeLoader.java

\* /opt/cola/permits/1136132045\_1613687322.17/0/native-lib-loader-2-0-2-sources-1-jar/org/scijava/nativelib/JniExtractor.java

\* /opt/cola/permits/1136132045\_1613687322.17/0/native-lib-loader-2-0-2-sources-1-jar/org/scijava/nativelib/WebappJniExtractor.java

\* /opt/cola/permits/1136132045\_1613687322.17/0/native-lib-loader-2-0-2-sources-1-jar/org/scijava/nativelib/DefaultJniExtractor.java

# 1.30 jetty-util 9.4.38.v20210224

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

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\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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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

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The following artifacts are EPL and ASL2. \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0. \* org.eclipse.jetty.orbit:javax.mail.glassfish

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\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

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\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modififications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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#### OW2

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

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Apache

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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

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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org.eclipse.jetty.toolchain:jetty-schemas

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## 1.36 jacoco-core 0.8.7

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