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Replaceable is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the Replaceable API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>
If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() {
        return null;
    }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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1.8 jaxb-runtime 2.3.1
1.9 jakarta-el-api 3.0.3

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* https://github.com/eclipse-ee4j/el-ri

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### 1.10 visual-studio-runtime 12.00.21005.1

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1.16 antlr-runtime 4.5.1-1

1.17 byte-buddy 1.10.7
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1.19 jakarta-jws-api 1.1.1

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1.20 log4cxx 0.10.0

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1.26 jakarta-xml-soap-api 1.4.1
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1.27 jackson 2.8.11

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1.28 activemq-console 5.15.9

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1.29 rapidxml 1.1.13

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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- jsp_2_3.xsd
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- web-common_3_1.xsd
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1.44 tribe 6.8.1

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    reactor.core.scheduler.ReactorBlockHoundIntegration

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1.50 gson 2.8.5

1.51 commons-text 1.8

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1.52 java-support 7.3.0

1.53 json-simple 3.11.11
1.53.1 Available under license:
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/**
 * The <code>org.jooq.tools.reflect</code> package contains parts of jOOR.
 * <p>
 * jOOQ has no external dependencies. Nevertheless, some libraries that are
 * * compatible with jOOQ's Apache License 2.0 are embedded into jOOQ. See the
 * * jOOR website for more details about jOOR:
 * * <p>
 * * <a href="http://code.google.com/p/joor/">http://code.google.com/p/joor/</a>
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/tools/reflect/package-info.java
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 */
/**
 * A very simple CSV parser released under a commercial-friendly license. This
 * just implements splitting a single line into fields.
 * *
 * @author Glen Smith
 * @author Rainer Pruy
 */
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*
*/

/**
* Create a "plain SQL" field.
* <p>
* A PlainSQLField is a field that can contain user-defined plain SQL,
* because sometimes it is easier to express things directly in SQL, for
* instance complex proprietary functions. There must not be any binding
* variables contained in the SQL.
* <p>
* Example:
* <p>
* <code><pre>
* String sql = "DECODE(MY_FIELD, 1, 100, 200)";
* </pre></code>
* <p>
* <b>NOTE</b>: When inserting plain SQL into jOOQ objects, you must
* guarantee syntax integrity. You may also create the possibility of
* malicious SQL injection. Be sure to properly use bind variables and/or
* escape literals when concatenated into SQL clauses!
* 
* @param sql The SQL
* @return A field wrapping the plain SQL
* @see SQL
*/
/**
* Create a "plain SQL" field.
* <p>
* A PlainSQLField is a field that can contain user-defined plain SQL,
* because sometimes it is easier to express things directly in SQL, for
* instance complex proprietary functions. There must be as many binding
* variables contained in the SQL, as passed in the bindings parameter
* <p>
* Example:
* <p>
* <code><pre>
* String sql = "DECODE(MY_FIELD, ?, ?, ?)";
* Object[] bindings = new Object[] { 1, 100, 200 };</pre></code>
* <p>
* <b>NOTE</b>: When inserting plain SQL into jOOQ objects, you must
* guarantee syntax integrity. You may also create the possibility of
* malicious SQL injection. Be sure to properly use bind variables and/or
* escape literals when concatenated into SQL clauses!
* 
* @param sql The SQL
* @param bindings The bindings for the field
* @return A field wrapping the plain SQL
* @see SQL
* @see DSL#sql(String, Object...)
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DSL.java
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/**
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* The `<code>org.jooq.tools.json</code>` package contains parts of JSON Simple.
* `<p>`
* jOOQ has no external dependencies. Nevertheless, some libraries that are
* compatible with jOOQ's Apache License 2.0 are embedded into jOOQ. See the
* JSON Simple website for more details about JSON Simple:
* `<p>`
* `/`

Found in path(s):
* `/opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/json/package-info.java`
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Found in path(s):
* `/opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/META-INF/maven/org.jooq/jooq/pom.xml`
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Found in path(s):
* `/opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/reflect/Reflect.java`
* `/opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/reflect/Compile.java`
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`/**`
* The `<code>org.jooq.tools.csv</code>` package contains parts of OpenCSV.
* `<p>`
* jOOQ has no external dependencies. Nevertheless, some libraries that are
* compatible with jOOQ's Apache License 2.0 are embedded into jOOQ. See the
* OpenCSV website for more details about OpenCSV:
Found in path(s):

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 */
```

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jar/org/jooq/BetweenAndStep9.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/ContentsIgnoreCase.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectLimitPercentAfterOffsetStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Record8.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Row.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DerivedColumnList19.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/ParsingConnection.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Binding.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/JoinTable.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/Floor.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/CompareCondition.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/CreateTableImpl.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/MergeKeyStepN.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/CatalogImpl.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/CallbackExecuteListener.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/Sqrt.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/Function.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/AbstractXMLasObjectBinding.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/AbstractXMLasObjectBinding.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Loader.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/MergeNotMatchedValuesStep14.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/ExecutorProviderCompletionStage.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/WithAsStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectQuery.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/BitCount.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Record15.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/VersionsBetweenAndStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/util/jaxb/tools/StringAdapter.java
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- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/SchemaImpl.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/NullIf.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Row12.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DropIndexOnStep.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/InsertValuesStep14.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/InsertOnDuplicateSetStep.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/RecordFactory.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/RowsIsDistinctFrom.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/InsertValuesStep5.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/RoleImpl.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DefaultDiagnosticsListenerProvider.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/Coalesce.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/InsertValuesStep3.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DefaultExecuteListener.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/CombinedCondition.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/BetweenAndStep17.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/ParamMode.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/util/sqlite/SQLiteDSL.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/AlterIndexStep.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/MergeNotMatchedValuesStep4.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/RatioToReport.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/InsertValuesStepN.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DropTableFinalStep.java
- /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/util/firebird/FirebirdDataType.java
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* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/InsertFinalStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Comment.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DefaultExecuteListenerProvider.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/InsertValuesStep19.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/ConstraintForeignKeyOnStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/BindingSetSQLOutputContext.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/Iff.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectDistinctOnStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/ParamCollector.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/SQLQuery.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/TruncateIdentityStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/CommonTableExpression.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/SortFieldImpl.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/MergeNotMatchedValuesStep15.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/ResultQuery.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectSeekStep15.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectSeekStep3.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/jdbc/MockSavepoint.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/exception/DetachedException.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/ConnectionProvider.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/UpdateQuery.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/WithAsStep5.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/CreateTableCommentStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/AbstractStoreQuery.java
The text appears to be a list of files and directories, possibly related to a software project. However, without context, it's challenging to interpret the significance of these entries. Here is the plain text representation:

```plaintext
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/MergeKeyStep20.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/WindowSpecification.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/util/mariadb/MariaDBDSL.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectSeekStep2.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/MergeKeyStep9.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DatePart.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Record20.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/MergeMatchedDeleteStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/RecordCondition.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/insertValuesStep11.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/ClobBinding.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/ConstraintForeignKeyReferencesStep7.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/GroupConcat.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DefaultRecordUnmapperProvider.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/Batch.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/DerivedColumnList20.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/ProviderEnabledStatement.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/DiagnosticsStatement.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/impl/Decode.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectField.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/BetweenAndStep16.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/CurrentUser.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/SelectSeekStep17.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/jdbc/DefaultStatement.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/CaseConditionStep.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/FutureResult.java
```
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Clean up blobs, clobs and the local configuration.

BLOBS and CLOBS

[#1326] This is necessary in those dialects that have long-lived
* temporary lob objects, which can cause memory leaks in certain contexts,
* where the lobs' underlying session / connection is long-lived as well.
* Specifically, Oracle and ojdbc have some trouble when streaming temporary
* lobs to UDTs:
* <ol>
* <li>The lob cannot have a call-scoped life time with UDTs</li>
* <li>Freeing the lob after binding will cause an ORA-22275</li>
* <li>Not freeing the lob after execution will cause an
* @link OutOfMemoryError</li>
* </ol>
* <p>
* <h5>Local configuration</h5>
* <p>
* [#1544] There exist some corner-cases regarding the @link SQLOutput
* API, used for UDT serialisation / deserialisation, which have no elegant
* solutions of obtaining a @link Configuration and thus a JDBC
* @link Connection object short of:
* <ul>
* <li>Making assumptions about the JDBC driver and using proprietary API,
* e.g. that of ojdbc</li>
* <li>Dealing with this problem globally by using such a local
* configuration</li>
* </ul>
* *
* @see <a href="http://stackoverflow.com/q/11439543/521799">http://stackoverflow.com/q/11439543/521799</a>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
jar/org/jooq/impl/DefaultExecuteContext.java
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  jar/org/jooq/tools/StringUtils.java

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* A very simple CSV reader released under a commercial-friendly license.
*
* @author Glen Smith
*/

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* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-
  jar/org/jooq/tools/csv/CSVReader.java

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* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/reflect/ReflectException.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/types/Unsigned.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/types/UNumber.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/types/UShort.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/types/UInteger.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/types/UByte.java

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* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/json/JSONValue.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/json/JSONObject.java
* /opt/ws_local/PERMITS_SQL/1031769193_1589524173.89/0/jooq-3-11-11-sources-jar/org/jooq/tools/json/JSONArray.java
1.54 txw2 2.2.11

1.55 policy 2.7.6

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/metro-xmlstreambuffer
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* Version: 2004/10 (n/a)
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**ant-launcher (1.10.2)**

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maven-plugin-api (3.5.2)

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woodstox-core-asl (4.4.1)
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wsat.xsd Version: 2004/10 (n/a)

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 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeValidatorForByte.java
 */

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/*
 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/TokenCollector.java
 */

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/*
 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/AbstractJavaTimeValidator.java
 */

Found in path(s):

/*
 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfDouble.java
 */

Found in path(s):

/*
 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/metadata/core/AnnotationProcessingOptionsImpl.java
 */

Found in path(s):

/*
 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/engine/resolver/JPATraversableResolver.java
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 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/ISBNValidator.java
 */

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 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/ISBNValidator.java
 */

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 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/ISBNValidator.java
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/*
 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/ISBNValidator.java
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 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/ISBNValidator.java
 */

Found in path(s):

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 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/ISBNValidator.java
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Found in path(s):

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 /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/ISBNValidator.java
 */
dValidator.java

* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/xml/mapping/ConstrainedConstructorStaxBuilder.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/xml/mapping/AbstractOneLineStringStaxBuilder.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/metadata/location/TypeArgumentConstraintLocation.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/mapping/ConstrainedMethodStaxBuilder.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/PositiveValidatorForMonetaryAmount.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/CodePointLengthValidator.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/UniqueElementsValidator.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/util/classhierarchy/Filter.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/PotentiallyContainerCascadingMetaData.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/metadata/core/package-info.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForJapane
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/ioutil priveledgedactions/GetResolvedMemberMethods.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/PotentiallyContainerCascadingMetaData.java

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* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintValidatorManager.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/cfg/defs/pl/NIPDef.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/ExecutableDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/messageinterpolation/AbstractMessageInterpolator.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/util/privilegedactions/package-info.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArraysOfDouble.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/constraints/Length.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/xml/mapping/ReturnValueStaxBuilder.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/cfg/defs/RangeDef.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/rule/OverridingMethodMustNotAlterParameterConstraints.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMinValidatorForLong.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/AbstractPastOrPresentEpochBasedValidator.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/ValidatableParametersMetaData.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/DecimalMinValidatorForLong.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/xml/XmlParserHelper.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/util/annotation/package-info.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArraysOfFloat.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/engine/valueextraction/BooleanArrayValueExtractor.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/authentication/package-info.java
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/internal/authentication/package-info.java
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jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
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* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/META-INF/validation-mapping-1.0.xsd
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/META-INF/validation-mapping-2.0.xsd
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/META-INF/validation-configuration-1.0.xsd
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/org/hibernate/validator/overview.html
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/META-INF/validation-mapping-1.1.xsd
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/META-INF/validation-configuration-1.1.xsd
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml
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*/
/**
* <p>
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
* will be used as parameter names.
* </p>
* </p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* </p>
* {@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* </p>
* Can be specified on any method or constructor.
* </p>
*
* @author Gunnar Morling
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-
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*/
/**
* Retrieves constraint related meta data for the parameters of the given
* executable.
* *
* @param executable The executable of interest.
* *
* @return A list with parameter meta data for the given executable.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031731802_1589523906.0/0/hibernate-validator-6-0-18-final-sources-
jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

1.62 elasticsearch-scripting-painless-spi 6.8.1
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1.72 hibernate-validator 6.0.18

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1.73 log4j-api 2.11.0

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1.74 activemq-leveldb-store 5.15.9

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1.89 jackson-dataformat-yaml 2.10.3

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# 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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## 1.90 spring-messaging 5.2.5

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/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p>NOTE: When an unbounded
 * @link #queueCapacity(int) queueCapacity} is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in {@link java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor} for
```
* more details.
* <p>By default this is set to {@code Integer.MAX_VALUE}.

*/

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<br/>
Version: 2.0
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Status: Final Release
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1.94 javax-websocket-api 1.1

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1.96 jackson-dataformat-yaml 2.8.11

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1.113 spring-boot-autoconfigure 2.2.6

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* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-
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jar/org/springframework/boot/autoconfigure/data/redis/LettuceConnectionConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-
jar/org/springframework/boot/autoconfigure/flyway/package-info.java
* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-
jar/org/springframework/boot/autoconfigure/integration/IntegrationAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-
jar/org/springframework/boot/autoconfigure/condition/ConditionEvaluationReport.java
* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-
jar/org/springframework/boot/autoconfigure/flyway/FlywayProperties.java
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jar/org/springframework/boot/autoconfigure/kafka/KafkaAutoConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-
jar/org/springframework/boot/autoconfigure/security/reactive/ReactiveUserDetailsServiceAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-
jar/org/springframework/boot/autoconfigure/amqp/RabbitAutoConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-
jar/org/springframework/boot/autoconfigure/condition/OnPropertyListCondition.java
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* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-jar/org/springframework/boot/autoconfigure/security/servlet/SecurityAutoConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-jar/org/springframework/boot/autoconfigure/amqp/AbstractRabbitListenerContainerFactoryConfigurer.java
* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-jar/org/springframework/boot/autoconfigure/condition/OnClassCondition.java
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* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-jar/org/springframework/boot/autoconfigure/http/HttpMessageConverters.java
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* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-jar/org/springframework/boot/autoconfigure/web/servlet/WebMvcAutoConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-jar/org/springframework/boot/autoconfigure/web/embedded/TomcatWebServerFactoryCustomizer.java
* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-jar/org/springframework/boot/autoconfigure/web/servlet/WebMvcProperties.java
* /opt/ws_local/PERMITS_SQL/1031731790_1589921434.06/0/spring-boot-autoconfigure-2-2-6-release-sources-jar/org/springframework/boot/autoconfigure/web/ServerProperties.java
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b) Use a suitable shared library mechanism for linking with the
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- javae_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javae_7.xsd
- javae_web_services_1_4.xsd
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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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include/GL/wglxext.h :

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invmod.pod
isprime.pod
lap.pod
mpi-test.pod
prime.txt
prng.pod

# This file contains a list of people who've made non-trivial 
# contribution to the Google C++ Testing Framework project. People 
# who commit code to the project are encouraged to add their names 
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1.131 geo-ip 2.9.0

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1.136 curl 7.29.0-54.el7_7.2

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GnuTLS  http://www.gnutls.org/

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yassl  http://www.yassl.com/

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axTLS   http://axtls.sourceforge.net/ 

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html 

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib    http://www.gzip.org/zlib/zlib_license.html 

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4 

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with
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fbopenssl

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1.137 spring-context 5.2.3

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1.139 spring-rabbit 2.2.5

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   /opt/ws_local/PERMITS_SQL/1031731814_1589921577.2/0/spring-rabbit-2-2-5-release-sources-jar/org/springframework/amqp/rabbit/connection/ClosingRecoveryListener.java
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  jar/org/springframework/amqp/rabbit/listener/SimpleMessageListenerContainer.java
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  jar/org/springframework/amqp/rabbit/core/RabbitTemplate.java
* /opt/ws_local/PERMITS_SQL/1031731814_1589921577.2/spring-rabbit-2-2-5-release-sources-
  jar/org/springframework/amqp/rabbit/listener/AbstractMessageListenerContainer.java
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1.140 error-prone-annotations 2.3.2

1.141 spi-annotations 2.19.5

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c) If the modified program normally reads commands interactively when
run, you must cause it, when started running for such interactive use
in the simplest and most usual way, to print or display an
announcement including an appropriate copyright notice and a notice
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warranty) and that users may redistribute the program under these
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corresponding source code, to be distributed under the terms of
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<one line to give the program's name and a brief idea of what it does.>
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Gnomovision version 69, Copyright (C) 19xx name of author
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under certain conditions; type `show c' for details.

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commands you use may be called something other than `show w' and `show
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at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the\nmodule-build@perl.org>.
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3, 19 November 2007

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#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation");
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();
# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
        or die "Year not found in README copyright message \'$copyright_msg\'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output \'$output\'";

    $year;
}
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1.150 metrics 3.1.2

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Spring Boot CLI

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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

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

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

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

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

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

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**wsrm Version: 2005/02 (n/a)**
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### 1.174 atlas 3.10.1

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1.175 ingest-common 6.8.1

1.176 checker-qual 2.10.0

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1.177 openjdk-jre 11.0.6.10-1.el7_7

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1.178 lucene-join 7.7.0

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1.198 shiro-crypto-core 1.4.1

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1.201 xml-apis 1.3.04

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src/base/fthash.c
src/base/md5.c
src/base/md5.h
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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<!-- SECTION: Getting Started -->

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1.218 xml-utils 1.2.20

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jar/org/springframework/amqp/core/ReplyToAddressCallback.java
* /opt/ws_local/PERMITS_SQL/1031731793_1589921384.71/0/spring-amqp-2-2-3-release-sources-
jar/org/springframework/amqp/core/ReceiveAndReplyMessageCallback.java
* /opt/ws_local/PERMITS_SQL/1031731793_1589921384.71/0/spring-amqp-2-2-3-release-sources-
jar/org/springframework/amqp/AmqpAuthenticationException.java
* /opt/ws_local/PERMITS_SQL/1031731793_1589921384.71/0/spring-amqp-2-2-3-release-sources-
jar/org/springframework/amqp/utils/test/TestUtils.java
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/**
* Special exception for listener implementations that want to signal that the current
* batch of messages should be acknowledged immediately (i.e. as soon as possible) without
* rollback, and without consuming any more messages within the current transaction.
* *
* @author Dave Syer
* @author Gary Russell
* *
*/

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* /opt/ws_local/PERMITS_SQL/1031731793_1589921384.71/0/spring-amqp-2-2-3-release-sources-jar/org/springframework/amqp/support/postprocessor/AbstractCompressingPostProcessor.java
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1.239 ganymed-ssh2 262
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1.240 tomcat-api 9.0.22

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1.242 compress-lzf 1.0.3

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Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

### 1.243 jackson 2.10.2

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# 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.
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1.245 jackson-module-jaxb-annotations 2.10.2

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Zstd-jni: JNI bindings to Zstd Library

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1.261 tomcat-jaspic-api 9.0.22

1.262 management-api 3.2.1

1.263 lang-expression 6.8.1

1.264 apache-commons-logging 1.2

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1.268 libxtst 1.2.3-1.el7

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1.269 tomcat-tribes 9.0.22

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1.270 jts 1.15.0

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1.274 shiro-crypto-hash 1.4.1
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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1.280 xorg-server 1.0.9-9.el7

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 */

/**
 * Support and default implementations for Shiro's {@link org.apache.shiro.authz.Permission Permission} interface.
 *<p/>
 * Also note the {@link org.apache.shiro.authz.permission.PermissionResolver PermissionResolver} interface, as it plays an important part in many of Shiro's {@link org.apache.shiro.realm.Realm Realm} implementations and AOP support.
 */

package org.apache.shiro.authz.permission;

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 */
package org.apache.shiro.authz.permission;

import java.io.Serializable;

import org.apache.shiro.authz.Permission;

/**
 * An all <tt>AllPermission</tt> instance is one that always implies any other permission; that is, its
 * { @link #implies implies} method always returns <tt>true</tt>.
 * 
 * <p>You should be very careful about the users, roles, and/or groups to which this permission is assigned since
 * those respective entities will have the ability to do anything. As such, an instance of this class
 * is typically only assigned only to "root" or "administrator" users or roles.
 * 
 * @since 0.1
 */

public class AllPermission implements Permission, Serializable {

    /**
     * Always returns <tt>true</tt>, indicating any Subject granted this permission can do anything.
     * 
     * @param p the Permission to check for implies logic.
     * @return <tt>true</tt> always, indicating any Subject grated this permission can do anything.
     */
    public boolean implies(Permission p) {
        return true;
    }
}

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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.ShiroException;

/**
 * Thrown by {@link PermissionResolver#resolvePermission(String)} when the String being parsed is not
 * valid for that resolver.
 *
 * @since 0.9
 */
public class InvalidPermissionStringException extends ShiroException
{

    private String permissionString;

    /**
     * Constructs a new exception with the given message and permission string.
     *
     * @param message            the exception message.
     * @param permissionString   the invalid permission string.
     */
    public InvalidPermissionStringException(String message, String permissionString) {
        super(message);
        this.permissionString = permissionString;
    }

    /**
     * Returns the permission string that was invalid and caused this exception to
     * be thrown.
     *
     * @return the permission string.
     */
    public String getPermissionString() {
        return this.permissionString;
    }
}
A Permission represents the ability to perform an action or access a resource. A Permission is the most
* granular, or atomic, unit in a system's security policy and is the cornerstone upon which fine-grained security
* models are built.
* <p/>
* It is important to understand a Permission instance only represents functionality or access - it does not grant it.
* Granting access to an application functionality or a particular resource is done by the application's security
* configuration, typically by assigning Permissions to users, roles and/or groups.
* <p/>
* Most typical systems are what the Shiro team calls *role-based* in nature, where a role represents
* common behavior for certain user types. For example, a system might have an *Administrator* role, a
* <em>User</em> or *Guest* roles, etc.
* <p/>
* But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code
* role names in your code. In this environment, roles themselves aren't aren't very useful. What matters is what
* <em>permissions</em> are assigned to these roles.
* <p/>
* Under this paradigm, permissions are immutable and reflect an application's raw functionality
* (opening files, accessing a web URL, creating users, etc). This is what allows a system's security policy
* to be dynamic: because Permissions represent raw functionality and only change when the application's
* source code changes, they are immutable at runtime - they represent 'what' the system can do. Roles, users, and
* groups are the 'who' of the application. Determining 'who' can do 'what' then becomes a simple exercise of
* associating Permissions to roles, users, and groups in some way.
* <p/>
Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive association, the user 'has' the permissions in their roles. There are numerous variations on this theme (permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn have roles, etc, etc). When employing a permission-based security model instead of a role-based one, users, roles, and groups can all be created, configured and/or deleted at runtime. This enables an extremely powerful security model.

A benefit to Shiro is that, although it assumes most systems are based on these types of static role or dynamic role w/ permission schemes, it does not require a system to model their security data this way - all Permission checks are relegated to [@link org.apache.shiro.realm.Realm Realm] implementations, and only those implementations really determine how a user 'has' a permission or not. The Realm could use the semantics described here, or it could utilize some other mechanism entirely - it is always up to the application developer.

Shiro provides a very powerful default implementation of this interface in the form of the [@link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission]. We highly recommend that you investigate this class before trying to implement your own <code>Permission</code>s.

Shiro provides a very powerful default implementation of this interface in the form of the [@link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission]. We highly recommend that you investigate this class before trying to implement your own <code>Permission</code>s.

public interface Permission {

	/**
	 * Returns [@code true] if this current instance <em>implies</em> all the functionality and/or resource access described by the specified [@code Permission] argument, [@code false] otherwise.
	 *<p/>
	 * That is, this current instance must be exactly equal to or a <em>superset</em> of the functionality and/or resource access described by the given [@code Permission] argument. Yet another way of saying this would be:
	 * <p/>
	 * If &quot;permission1 implies permission2&quot;, i.e. &lt;code&gt;permission1.implies(permission2)&lt;/code&gt; , then any Subject granted [@code permission1] would have ability greater than or equal to that defined by [@code permission2].
	 *<p/>
	 * @param p the permission to check for behavior/functionality comparison.
	 * @return [@code true] if this current instance <em>implies</em> all the functionality and/or resource access described by the specified [@code Permission] argument, [@code false] otherwise.
	 */

boolean implies(Permission p);
}

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package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
 * <tt>PermissionResolver</tt> implementation that returns a new {@link WildcardPermission WildcardPermission}
 * based on the input string.
 *
 * @since 0.9
 */
public class WildcardPermissionResolver implements PermissionResolver {

    /**
     * Returns a new {@link WildcardPermission WildcardPermission} instance constructed based on the specified
     * <tt>permissionString</tt>.
     *
     * @param permissionString the permission string to convert to a {@link Permission Permission} instance.
     * @return a new {@link WildcardPermission WildcardPermission} instance constructed based on the specified
     *         <tt>permissionString</tt>
     */
    public Permission resolvePermission(String permissionString) {
        return new WildcardPermission(permissionString);
    }
}

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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import org.apache.shiro.authz.Permission;

public interface PermissionResolver {

    /**
     * Resolves a Permission based on the given String representation.
     * @param permissionString The String representation of the permission.
     * @return The resolved Permission instance.
     */
    Permission resolve(String permissionString);
}
Permission resolvePermission(String permissionString);
public void setRolePermissionResolver(RolePermissionResolver rpr);
}

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* under the License.
*/

package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import java.util.Collection;

/**<p/>
*A RolePermissionResolver resolves a String value and converts it into a Collection of
* {@link org.apache.shiro.authz.Permission} instances.
*<p/>
*In some cases a {@link org.apache.shiro.realm.Realm} my only be able to return a list of roles. This
* component allows an application to resolve the roles into permissions.
*<p/>

public interface RolePermissionResolver {

/**
* Resolves a Collection of Permissions based on the given String representation.
*<p/>
* @param roleString the String representation of a role name to resolve.
* @return a Collection of Permissions based on the given String representation.
*/
Collection<Permission> resolvePermissionsInRole(String roleString);

}

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package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import org.apache.shiro.util.CollectionUtils;
import org.apache.shiro.util.StringUtils;
import java.io.Serializable;
import java.util.ArrayList;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Set;

/**
 * A <code>WildcardPermission</code> is a very flexible permission construct supporting multiple levels of
 * permission matching. However, most people will probably follow some standard conventions as explained below.
 * <p/>
 * <h3>Simple Usage</h3>
 * <p/>
 * In the simplest form, <code>WildcardPermission</code> can be used as a simple permission string. You could
 * grant a
 * user an &quot;editNewsletter&quot; permission and then check to see if the user has the editNewsletter
 * permission by calling
 * <p/>
 * <code>subject.isPermitted(&quot;editNewsletter&quot;)</code>
 * <p/>
 * This is (mostly) equivalent to
 * <p/>
 * <code>subject.isPermitted( new WildcardPermission(&quot;editNewsletter&quot;) )</code>
 * <p/>
 * but more on that later.
 * <p/>
 * The simple permission string may work for simple applications, but it requires you to have permissions like
 * <code>&quot;viewNewsletter&quot;</code>, <code>&quot;deleteNewsletter&quot;</code>,
* <code>&quot;createNewsletter&quot;</code>, etc. You can also grant a user <code>&quot;*&quot;</code> permissions
* using the wildcard character (giving this class its name), which means they have <em>all</em> permissions. But
* using this approach there's no way to just say a user has <em>all</em> newsletter permissions.
* <p/>
* For this reason, <code>WildcardPermission</code> supports multiple <em>levels</em> of permissioning.
* <p/>
* <h3>Multiple Levels</h3>
* <p/>
* <code>WildcardPermission</code> also supports the concept of multiple <em>levels</em>. For example, you could
* restructure the previous simple example by granting a user the permission
* <code>&quot;newsletter:edit&quot;</code>.
* The colon in this example is a special character used by the <code>WildcardPermission</code> that delimits the
* next token in the permission.
* <p/>
* In this example, the first token is the <em>domain</em> that is being operated on
* and the second token is the <em>action</em> being performed. Each level can contain multiple values. So you
* could simply grant a user the permission <code>&quot;newsletter:view,edit,create&quot;</code> which gives them
* access to perform <code>view</code>, <code>edit</code>, and <code>create</code> actions in the <code>newsletter</code> domain.
* <p/>
* You could check to see if the user has the <code>&quot;newsletter:create&quot;</code> permission by calling
* <p/>
* <code>subject.isPermitted(&quot;newsletter:create&quot;)</code> (which would return true).
* <p/>
* In addition to granting multiple permissions via a single string, you can grant all permission for a particular
* level. So if you wanted to grant a user all actions in the <code>newsletter</code> domain, you could simply give
* them <code>&quot;newsletter:*&quot;</code>. Now, any permission check for
* <code>&quot;newsletter:XXX&quot;</code> will return <code>true</code>. It is also possible to use the wildcard token at the domain level (or both): so you
* could grant a user the <code>&quot;view&quot;</code> action across all domains
* <code>&quot;*:view&quot;</code>.
* <p/>
* <h3>Instance-level Access Control</h3>
* <p/>
* Another common usage of the <code>WildcardPermission</code> is to model instance-level Access Control
* Lists.
* In this scenario you use three tokens - the first is the <em>domain</em>, the second is the <em>action</em>, and
* the third is the <em>instance</em> you are acting on.
* <p/>
* So for example you could grant a user <code>&quot;newsletter:edit:12,13,18&quot;</code>. In this example, assume
* that the third token is the system's ID of the newsletter. That would allow the user to edit newsletters
* <code>12</code>, <code>13</code>, and <code>18</code>. This is an extremely powerful way to express
permissions,
* since you can now say things like <code>&quot;newsletter:*:13&quot;</code> (grant a user all actions for
* newsletter <code>&lt;</code>13<code>&gt;</code>), <code>&quot;newsletter:view,create,edit:*&quot;</code> (allow the user to
* <code>&lt;</code>view<code>&lt;/code&gt;</code>, <code>&lt;</code>create<code>&lt;/code&gt;</code>, or <code>&lt;</code>edit<code>&lt;/code&gt;</code> <em>any</em> <em>newsletter</em>), or
* <code>&quot;newsletter:*:*&quot;</code> (allow the user to perform <em>any</em> action on <em>any</em> <em>newsletter</em>).
* <p/>
* To perform checks against these instance-level permissions, the application should include the instance ID in the
* permission check like so:
* <p/>
* <code>subject.isPermitted( &quot;newsletter:edit:13&quot; );</code>
* <p/>
* There is no limit to the number of tokens that can be used, so it is up to your imagination in terms of ways that
* this could be used in your application. However, the Shiro team likes to standardize some common usages shown
* above to help people get started and provide consistency in the Shiro community.
* 
* @since 0.9
*/

public class WildcardPermission implements Permission, Serializable {

//TODO - JavaDoc methods

/*-----------------------------
 | C O N S T A N T S         |
|------------------------------*/
protected static final String WILDCARD_TOKEN = "*";
protected static final String PART_DIVIDER_TOKEN = ":";
protected static final String SUBPART_DIVIDER_TOKEN = ",";
protected static final boolean DEFAULT_CASE_SENSITIVE = false;

/*------------------------------
 | I N S T A N C E   V A R I A B L E S   |
|---------------------------------*/
private List<Set<String>> parts;

/*-----------------------------
 | C O N S T R U C T O R S         |
|-------------------------------*/
/**
* Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must
* provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.
* <p/>
* Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you
* wish to create type-safe Permission objects that would be used in your application, such as perhaps a
* { @code UserPermission}, { @code SystemPermission}, { @code PrinterPermission}, etc. If you want such
type-safe
* permission usage, consider subclassing the { @link DomainPermission DomainPermission} class for your
protected WildcardPermission() {
}

public WildcardPermission(String wildcardString) {
    this(wildcardString, DEFAULT_CASE_SENSITIVE);
}

public WildcardPermission(String wildcardString, boolean caseSensitive) {
    setParts(wildcardString, caseSensitive);
}

protected void setParts(String wildcardString) {
    setParts(wildcardString, DEFAULT_CASE_SENSITIVE);
}

protected void setParts(String wildcardString, boolean caseSensitive) {
    wildcardString = StringUtils.clean(wildcardString);

    if (wildcardString == null || wildcardString.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission strings are properly formatted.");
    }

    List<String> parts = CollectionUtils.asList(wildcardString.split(PART_DIVIDER_TOKEN));
    this.parts = new ArrayList<Set<String>>();
    for (String part : parts) {
        Set<String> subparts = CollectionUtils.asSet(part.split(SUBPART_DIVIDER_TOKEN));
        if (!caseSensitive) {
            subparts = lowercase(subparts);
        }
        if (subparts.isEmpty()) {
            throw new IllegalArgumentException("Wildcard string cannot contain parts with only dividers. Make sure permission strings are properly formatted.");
        }
        this.parts.add(subparts);
    }
    if (this.parts.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot contain only dividers. Make sure permission strings are properly formatted.");
    }
}

private Set<String> lowercase(Set<String> subparts) {
    Set<String> lowerCasedSubparts = new LinkedHashSet<String>(subparts.size());

for (String subpart : subparts) {
    lowerCasedSubparts.add(subpart.toLowerCase());
}
return lowerCasedSubparts;
}

/*--------------------------------------------
| ACCESSORS/MODIFIERS |
============================================*/
protected List<Set<String>> getParts() {
    return this.parts;
}

/*--------------------------------------------
|               METHODS               |
============================================*/
public boolean implies(Permission p) {
    // By default only supports comparisons with other WildcardPermissions
    if (!(p instanceof WildcardPermission)) {
        return false;
    }
    WildcardPermission wp = (WildcardPermission) p;
    List<Set<String>> otherParts = wp.getParts();
    int i = 0;
    for (Set<String> otherPart : otherParts) {
        // If this permission has less parts than the other permission, everything after the number of parts contained
        // in this permission is automatically implied, so return true
        if (getParts().size() - 1 < i) {
            return true;
        } else {
            Set<String> part = getParts().get(i);
            if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
                return false;
            }
            i++;
        }
    }
    // If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards
    for (; i < getParts().size(); i++) {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN)) {
            return false;
        }
    }
public String toString() {
    StringBuilder buffer = new StringBuilder();
    for (Set<String> part : parts) {
        if (buffer.length() > 0) {
            buffer.append(":");
        }
        buffer.append(part);
    }
    return buffer.toString();
}

public boolean equals(Object o) {
    if (o instanceof WildcardPermission) {
        WildcardPermission wp = (WildcardPermission) o;
        return parts.equals(wp.parts);
    }
    return false;
}

public int hashCode() {
    return parts.hashCode();
}

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 */
package org.apache.shiro.authz.permission;
/**
 * Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt> that
 * might already exist instead of potentially creating one itself.
 *<p>This is mostly implemented by {@link org.apache.shiro.authz.Authorizer Authorizer} and
 * {@link org.apache.shiro.realm.Realm Realm} implementations since they
 * are the ones performing permission checks and need to know how to resolve Strings into
 * {@link org.apache.shiro.authz.Permission Permission} instances.
 * @since 0.9
 */
public interface PermissionResolverAware {

/**
 * Sets the specified <tt>PermissionResolver</tt> on this instance.
 *
 * @param pr the <tt>PermissionResolver</tt> being set.
 */
public void setPermissionResolver(PermissionResolver pr);
}

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its purpose remains meaningful.

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functions (ten lines or less in length), then the use of the object
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1.296 slf4j-log4j 1.7.25

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1.297 super-csv 2.4.0

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1.298 hibernate-types-52 2.9.3

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1.299 bean-validation-api 2.0.1

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* /opt/ws_local/PERMITS_SQL/1031731804_1589920936.69/0/netty-handler-proxy-4-1-48-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java
* /opt/ws_local/PERMITS_SQL/1031731804_1589920936.69/0/netty-handler-proxy-4-1-48-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1031731804_1589920936.69/0/netty-handler-proxy-4-1-48-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/ws_local/PERMITS_SQL/1031731804_1589920936.69/0/netty-handler-proxy-4-1-48-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1031731804_1589920936.69/0/netty-handler-proxy-4-1-48-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java
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1.315 commons-collections 3.2.2
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1.318 classmate 1.3.4

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(From http://woodstox.codehaus.org/4.2.0/release-notes/README)

Woodstox is an XML-parser that allows parsing of XML documents in so-called pull mode (aka "pull parsing"). It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>).

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Byte Buddy is a code generation and manipulation library for creating and modifying Java classes during the runtime of a Java application and without the help of a compiler.

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BUILD: 2016-02-13 19:37:50+01:00
GIT: 6e63b53

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

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Janino - An embedded Java[TM] compiler

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The primary ANTLR guy:

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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source.xml]
In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before analysis is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
```
<copyField source="*_t" dest="text" maxChars="25000" />
```

[IMPORTANT]

The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., _you cannot_ copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]
```
```
Monty <monty@xiph.org>

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Java port by Ben Cohee <bpcohee@gmail.com>

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https://github.com/rjohnsondev/java-libpst
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Janino - An embedded Java[TM] compiler

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 */
package org.apache.solr.security;

import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Function;
import java.util.regex.Pattern;
import java.util.stream.Collectors;
import com.google.common.collect.ImmutableSet;
import org.apache.solr.common.SolrException;
import org.apache.solr.common.util.Utils;
import static java.util.Collections.singleton;
import static java.util.Collections.singletonList;
import static org.apache.solr.common.params.CommonParams.NAME;

class Permission {
    String name;
    Set<String> path, role, collections, method;
    Map<String, Function<String[], Boolean>> params;
    PermissionNameProvider.Name wellknownName;
    Map originalConfig;

    private Permission() {
    }

    static Permission load(Map m) {
        Permission p = new Permission();
        p.originalConfig = new LinkedHashMap<>(m);
        String name = (String) m.get(NAME);
        if (!m.containsKey("role")) throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, "role not
p.role = readValueAsSet(m, "role");
if (PermissionNameProvider.Name.get(name) != null) {
    p.wellknownName = PermissionNameProvider.Name.get(name);
    disAllowed = new HashSet<>(knownKeys);
    disAllowed.remove("role"); // these are the only allowed keys for well-known permissions
    disAllowed.remove("NAME"); // allowed keys for well-known permissions
    disAllowed.remove("collection"); // allowed keys for well-known permissions
    disAllowed.remove("index");
    for (String s : disAllowed) {
        if (m.containsKey(s))
            throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, s + " is not a valid key for the permission: " + name);
    }
}
p.name = name;
p.path = readSetSmart(name, m, "path");
p.collections = readSetSmart(name, m, "collection");
p.method = readSetSmart(name, m, "method");
Map<String, Object> paramRules = (Map<String, Object>) m.get("params");
if (paramRules != null) {
    p.params = new LinkedHashMap<>();
    for (Map.Entry<String, Object> e : paramRules.entrySet()) {
        if (e.getValue() == null) {
            p.params.put(e.getKey(), (String[] val) -> val == null);
        } else {
            List<String> patternStrs = e.getValue() instanceof List ? (List) e.getValue() : singletonList(e.getValue().toString());
            List patterns = patternStrs.stream()
                .map(it -> it.startsWith("REGEX:"))
                .collect(Collectors.toList());
            p.params.put(e.getKey(), val -> {
                if (val == null) return false;
                for (Object pattern : patterns) {
                    for (String s : val) {
                        if (pattern instanceof String) {
                            if (pattern.equals(s)) return true;
                        } else if (pattern instanceof Pattern) {
                            if (((Pattern) pattern).matcher(s).find()) return true;
                        }
                    }
                }
                return false;
            });
        }
    }
}
private static Set<String> readSetSmart(String permissionName, Map m, String key) {
    if(PermissionNameProvider.values.containsKey(permissionName) && !m.containsKey(key) &&
    "collection".equals(key)) {
        return PermissionNameProvider.Name.get(permissionName).collName;
    }
    Set<String> set = readValueAsSet(m, key);
    if ("method".equals(key)) {
        if (set != null) {
            for (String s : set) if (!HTTP_METHODS.contains(s)) return null;
        }
        return set;
    }
    return set == null ? singleton(null) : set;
}

static Set<String> readValueAsSet(Map m, String key) {
    Set<String> result = new HashSet<>();
    Object val = m.get(key);
    if (val == null) {
        if("collection".equals(key)) {
            //for collection collection: null means a core admin/ collection admin request
            // otherwise it means a request where collection name is ignored
            return m.containsKey(key) ? singleton(null) : singleton("*");
        }
        return null;
    }
    if (val instanceof Collection) {
        Collection list = (Collection) val;
        for (Object o : list) result.add(String.valueOf(o));
    } else if (val instanceof String) {
        result.add((String) val);
    } else {
        throw new RuntimeException("Bad value for : " + key);
    }
}
{ }
return result.isEmpty() ? null : Collections.unmodifiableSet(result);

@Override
public String toString()
{
    return Utils.toJSONString(originalConfig);
}

static final Set<String> knownKeys = ImmutableSet.of("collection", "role", "params", "path", "method", "NAME","index");
public static final Set<String> HTTP_METHODS = ImmutableSet.of("GET", "POST", "DELETE", "PUT", "HEAD");

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

http://wiki.apache.org/solr/CommitterInfo

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handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the
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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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XZ for Java 1.0 (2011-10-22)

http://tukaani.org/xz/java.html

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The code for the t-digest was originally authored by Ted Dunning

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  analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
  analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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  analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
  analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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  analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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If you would like to comment, improve, criticize the project please email me: wgradkowski@gmail.com

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noggit

https://github.com/yonik/noggit
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<one line to give the program's name and a brief idea of what it does.>
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Gnomovision version 69, Copyright (C) 19xx name of author
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at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End
#!perl
=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})\b/ or die "Year not found in README copyright message '$copyright_msg'"

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987\b(\d{4})\b/ or die "Copyright statement not found in perl -v output '$output'"

    $year;
}
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- 'Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49

generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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1.327 zstd-jni 1.3.8-1

1.328 kmod 20-28.el7

1.328.1 Available under license :

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-- activemq-web

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-- activemq-web
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--activemq-web-console

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* https://github.com/eclipse-ee4j/metro-xmlstreambuffer
* https://github.com/eclipse-ee4j/metro-policy
* https://github.com/eclipse-ee4j/metro-wsit
* https://github.com/eclipse-ee4j/metro-mimepull
* https://github.com/eclipse-ee4j/metro-ws-test-harness
* https://github.com/eclipse-ee4j/metro-package-rename-task
* https://github.com/eclipse-ee4j/metro-jax-ws
* https://github.com/eclipse-ee4j/metro-saaj
* https://github.com/eclipse-ee4j/metro-jwspdp-samples
* https://github.com/eclipse-ee4j/jax-rpc-ri

## Third-party Content

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* License: W3C
* Project: https://www.w3.org/Submission/ws-addressing/
ant-launcher (1.10.2)

* License: Apache-2.0 AND SAX-PD AND W3C
* Project: https://ant.apache.org/
* Source: http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar

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* Source: https://repo1.maven.org/maven2/ant/ant/1.6/ant-1.6-sources.jar

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* Source: http://central.maven.org/maven2/commons-logging/commons-logging/1.1.2/commons-logging-1.1.2-sources.jar

JUnit (4.12)

* License: Eclipse Public License

maven-core (3.5.2)

* License: Apache-2.0

maven-plugin-annotations (3.5.1)

* License: Apache-2.0
* Source: https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/
* Source: https://github.com/apache/maven/tree/master/maven-plugin-api
maven-resolver-api (1.1.1)
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maven-settings (3.5.2)
* License: Apache-2.0

mex.xsd Version: 2004/09 (n/a)
* License: Oasis Style
* Project: https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II

plexus-utils (3.1.0)
* License: Apache-2.0 or Apache-1.1 or BSD or Public Domain or Indiana University Extreme! Lab Software License V1.1.1 (Apache 1.1 style)

relaxng-datatype (1.0)
* License: New BSD license

stax2-api (4.1)
* License: Pending
* Project: https://github.com/FasterXML/stax2-api

testng (6.14.2)
* License: Apache-2.0 AND MIT
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

woodstox-core-asl (4.4.1)
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woodstox-core-asl (5.1.0)
* License: Apache-2.0
* Project: https://github.com/FasterXML/woodstox
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ws-addr.wsd (1.0)

* License: W3C
* Project: https://www.w3.org/2005/08/addressing/
* Source: https://www.w3.org/2006/03/addressing/ws-addr.xsd

wsat.xsd Version: 2004/10 (n/a)

* License: Oasis Style
* Source: http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd

wscoor.xsd (1.0)

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* License: Oasis (Custom)
* Project: http://docs.oasis-open.org/ws-tx/wscoor/2006/06
* Source: http://docs.oasis-open.org/ws-tx/wscoor/2006/06/wstx-wscoor-1.1-schema-200701.xsd

wsrm Version: 2005/02 (n/a)

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* Project: http://schemas.xmlsoap.org/ws/2005/02/rm/

wsrm.xsd (1.2)

* License: Oasis

wstx-wsat.xsd (1.1)

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xmlsec (1.5.8)

* License: Apache-2.0
* Project: http://santuario.apache.org/
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* https://github.com/eclipse-ee4j/jersey

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

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

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

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
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   b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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### 1.370 spring-data-commons 2.2.6

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1.378 activation 1.2.1

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1.381 tiger-types 1.4

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 * @author twall
 */
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1.398 unboundid-ldap-sdk 4.0.8

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INFO_LDAPMODIFY_ARG_DESCRIPTION_ASSURED_REPLICATION("Indicates that all operation requests should include the UnboundID-proprietary 'assured replication' request control to indicate that the server should delay returning a response to the client until a minimum amount of replication processing has been performed for the operation. The "--{0}", "--{1}", and "--{2}" arguments may be used to configure the settings to use for the assured replication control, but the server will automatically determine an appropriate value for any argument that is not provided."). Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request.
INFO_LDAPMODIFY_ARG_DESCRIPTION_GET_AUTHZ_ENTRY_ATTR("Indicates that all bind requests
should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return
the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user
attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be
provided multiple times to specify multiple attributes to request.

Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the
server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.

Indicates that all delete requests should include the UnboundID-proprietary 'hard delete' request control, which
will permanently delete the target entry even if the server would have otherwise performed a soft delete
operation to hide the entry for a period of time before deleting it.

Indicates that all add requests should include the UnboundID-proprietary 'name with entryUUID' request control to indicate
that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry instead
of the provided RDN.

Indicates that all operations should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.

Indicates that all add and modify requests that target either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'password validation details' request control to indicate that the response should include information about the password quality requirements that the server will impose for the target user's password and whether the provided password satisfies each of those constraints.

Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'purge current password' request control. This will indicate that the server should purge the current password from the entry (even if it would have otherwise been retired for a brief period of time).

Indicates that all operation requests should include the UnboundID-proprietary 'replication repair' request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication topology.
should include the UnboundID-proprietary 'replication repair' request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication topology.

Indicates that any modify operation that targets either the "(0)" or "(1)" attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to authenticate with their current password (in addition to the new password) for a brief period of time.

Indicates that any modify operation that targets either the "(0)" or "(1)" attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to authenticate with their current password (in addition to the new password) for a brief period of time.

Indicates that all delete requests should include the UnboundID-proprietary 'soft delete' request control, which indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with an undelete operation if the delete should be reverted.

Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.

Indicates that all search requests should include the UnboundID-proprietary 'account usable' request control to request that each search result entry returned include a response control with information about the password policy usability state for the entry.

Indicates that all search requests should include the UnboundID-proprietary 'exclude branch' request control to indicate that matching entries below the specified base DN should be excluded from search results. This argument may be provided multiple times if multiple branches should be excluded.

Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request.

Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request.
the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_EFFECTIVE_RIGHTS_ATTR**

"Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes."

**Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights that the specified user has when interacting with each matching entry.**

**INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_EFFECTIVE_RIGHTS_AUTHZID**

"Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights the specified user has when interacting with each matching entry."

Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_USER_RESOURCE_LIMITS**

"Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user."

Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_REPL_CONFLICTS**

"Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results."

Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form the entry had before it was deleted).

**INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_SOFT_DELETED**

"Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form the entry had before it was deleted).

Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_MATCHING_ENTRY_COUNT_CONTROL**

"Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a"
search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output.

Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.

INFO_LDAPSEARCH_ARG_DESCRIPTION_OPERATION_PURPOSE("Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.")

Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request control to indicate that the server should not process the search operation if it cannot do so efficiently using server indexes. The requester must have either the unindexed-search or unindexed-search-with-control privilege.

INFO_LDAPSEARCH_ARG_DESCRIPTION_REJECT_UNINDEXED_SEARCH("Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request control to indicate that the server should not process the search operation if it cannot do so efficiently using server indexes. The requester must have either the unindexed-search or unindexed-search-with-control privilege.")

Indicates that all search requests should include the UnboundID-proprietary 'real attributes only' request control to indicate that the server should not include any virtual attributes in entries that are returned.

INFO_LDAPSEARCH_ARG_DESCRIPTION_REAL_ATTRS_ONLY("Indicates that all search requests should include the UnboundID-proprietary 'real attributes only' request control to indicate that the server should not include any virtual attributes in entries that are returned.")

Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request control to indicate that the server should not process the search operation if it cannot do so efficiently using server indexes, even if the requester has the unindexed-search privilege.

INFO_LDAPSEARCH_ARG_DESCRIPTION_REJECT_UNINDEXED_SEARCH("Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request control to indicate that the server should not process the search operation if it cannot do so efficiently using server indexes, even if the requester has the unindexed-search privilege.")

Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.

INFO_LDAPSEARCH_ARG_DESCRIPTION_SUPPRESS_OP_ATTR_UPDATES("Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.")

Indicates that all search requests should include the UnboundID-proprietary 'virtual attributes only' request control to indicate that the server should only include virtual attributes in entries that are returned.

INFO_LDAPSEARCH_ARG_DESCRIPTION_VIRTUAL_ATTRS_ONLY("Indicates that all search requests should include the UnboundID-proprietary 'virtual attributes only' request control to indicate that the server should only include virtual attributes in entries that are returned.")

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```java
public static final int CONFIDENTIALITY_REQUIRED = ResultCode.CONFIDENTIALITY_REQUIRED_INT_VALUE;
```

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The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable. INFO_SASL_GSSAPI_OPTION_QOP("The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable.");
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hash.c: chained hash tables

Reference: Your favorite introductory book on algorithms

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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1.424 lucene-sandbox 7.7.0

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http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
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JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
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This product includes code (JaspellTernarySearchTrie) from Java Spelling Checkin
g Package (jaspell): http://jaspell.sourceforge.net/
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic, Persian, Romanian, Bulgarian, Hindi and Bengali analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

See http://code.google.com/p/google-code-prettify/
The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

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1.425 erlang-otp 9.1.15
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[zlib]

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 version 1.2.3, July 18th, 2005

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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://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

/*
---------------------------------------------------------------------------
[edoc, syntax_tools]

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1.427 aspect-j 1.9.3

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1.429 bouncycastle-fips 1.61
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## ASM Bytecode Manipulation Framework v6.0

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Main Mesa code src/mesa/ MIT
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Ext headers GL/glext.h Khronos
GL/glxext.h Khronos
GL/wglext.h Khronos
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include/GL/gl.h :

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include/GL/glext.h
include/GL/glxext.h
include/GL/wglext.h :

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include/KHR/khrplatform.h :

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## The Unicode Standard, Unicode Character Database, Version 10.0.0

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src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#

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 disrupt v3.3.1

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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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1.452 commons-cli 1.2

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have
achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
lcconfig, lcmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

REFERENCES
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We highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30–44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
good explanations and example C code for a multitude of compression methods
including JPEG. It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2). This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
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642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300,  fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)
FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file
format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.474 kryo-parent 4.0.2

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JUnit

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1.523 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.524 hk2-api 2.6.1

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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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1.537 shiro-config-core 1.4.1

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1.562 javax-inject 1

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# 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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2000-05-05

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**1.615 activation 1.1**

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===============

libcurl can be built to use a fair amount of various third party libraries,
libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

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## GnuTLS

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## WolfSSL

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

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announcement clause.

## GNU GSS

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## libidn

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

1.619 opensaml-xmlsec-impl 3.3.0

1.620 om-aspects 1.2.20

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1.621 aws-java-sdk-s3 1.11.511

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 */

package com.amazonaws.services.s3.model;

/**
 * Specifies constants defining an access permission,
 * as granted to grantees in an
 * {link AccessControlList}. Only a limited set of permission are available;
 * each one is represented as a value in this enumeration.
 */

public enum Permission {

 /**
 * Provides READ, WRITE, READ_ACP, and WRITE_ACP permissions.
 * It does not convey additional rights and is provided only for
 * convenience.
 */
 FullControl("FULL_CONTROL", "x-amz-grant-full-control"),

}
Read("READ", "x-amz-grant-read"),

/**
 * Grants permission to create, overwrite, and delete any objects in the bucket.
 * <p>
 * This permission is not supported for objects.
 * </p>
 */
Write("WRITE", "x-amz-grant-write"),

/**
 * Grants permission to read the ACL for the applicable bucket or object.
 * <p>
 * The owner of a bucket or object always implicitly has this permission.
 * </p>
 */
ReadAcp("READ_ACP", "x-amz-grant-read-acp"),

/**
 * Gives permission to overwrite the ACP for the applicable bucket or object.
 * <p>
 * The owner of a bucket or object always has this permission implicitly.
 * </p>
 * <p>
 * Granting this permission is equivalent to granting <code>FULL_CONTROL</code> because the grant recipient can make any changes to the ACP.
 * </p>
 */
WriteAcp("WRITE_ACP", "x-amz-grant-write-acp");

private String permissionString;
private String headerName;

private Permission(String permissionString, String headerName) {
    this.permissionString = permissionString;
    this.headerName = headerName;
}

/**
 * Returns the name of the header used to grant this permission.
 */
public String getHeaderName() {
    return headerName;
}

/**
* Gets the string representation of this permission object as defined by
  * Amazon S3, eg. `<code>FULL_CONTROL</code>`.
  *
  * @return The string representation of this permission object as defined by
  * Amazon S3, eg. `<code>FULL_CONTROL</code>`.
  */
public String toString() {
    return permissionString;
}

/**
 * Returns the `<link Permission>` enumeration value representing the specified Amazon
 * S3 Region ID string. If specified string doesn't map to a known Amazon S3
 * Region, returns `<code>null</code>`.
 *
 * @param str
 *        A string representation of an Amazon S3 permission, eg.
 *        `<code>FULL_CONTROL</code>`
 *
 * @return The `<link Permission>` object represented by the given permission string,
 *        Returns `<code>null</code>` if the string isn't a valid representation
 *        of an Amazon S3
 *        permission.
 */
public static Permission parsePermission(String str) {
    for (Permission permission : Permission.values()) {
        if (permission.permissionString.equals(str)) {
            return permission;
        }
    }
    return null;
}

---

**1.622 minlog 1.3.0**

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1.623 nss-pem 1.0.3-7.el7
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<li>Michael H&uuml;usler &lt;haeusler@064ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
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- Joni Hahkala &lt;joni.hahkala@#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org">EGEE project</a> for making the work available.

- Rolf Schillinger &lt;rolf@#064isir-wum.de&gt; - initial implementation of Attribute Certificate generation.
Sergey Bahtin &lt;Sergey_Bahtin@yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy &lt;Franck.Leroy#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamanaka &lt;yamnk#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov &lt;tyrex#064rekoist.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer &lt;soren.hilmer#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell &lt;mitchell#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner &lt;D.Eisner#064seeburger.de&gt; - initial implementation of ISO 78164-4 padding.

Julien Pasquier &lt;julienpasquier#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

Matteo &lt;matartuso#064libero.it&gt; - sequence patch to ASN1Dump.

Andrew Paterson &lt;andrew.paterson#064burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov &lt;vladimir.n.molotkov#064intel.com&gt; - extensive provider exception handling compliance testing.

Florin Kollan &lt;adlocflo#064web.de&gt; - fix to ElGamalKeyParameters equality testing.

Pavel Vasiliev &lt;paulvas#064gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom#064tnux.net&gt; - addition of DES-ede encryption for RSAPrivate keys to PEMWriter.

Lukasz Kowalczyk &lt;lukasz.b.kowalczyk#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd.fix#064credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee &lt;dmllee#064crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

lu-vi cung &lt;t2cung#hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.

Chris Schultz &lt;cschultz#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dmllee#064crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;bugbee#064mac.com&gt; - initial ECNR implementation.
Remi Blancher &lt;Remi.Blancher@keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;brianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse &lt; david.josse@064transacttools.net &gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt; lwrnctan@064gmail.com &gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt; superdupont@064gmail.com &gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, &lt;a href='http://www.keyon.ch'&gt;http://www.keyon.ch&lt;/a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt; olaf.keller.bc@064bluewin.ch &gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

J&ouml;rg Eichhorn &lt; eichhorn@064ponton-consulting.de &gt; - patch to fix EOF read on SharedFileInputstream, support for F2m compression.

Karsten Ohme &lt; withstand@064t-online.de &gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt; carlos@064tradise.com &gt; - patch for &amp;lt;ctrl&amp;gt;&amp;lt;m&amp;gt; only handling in CRLOutputStream.

John Alfred Prufrock &lt; j.a.prufrock@064gmail.com &gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt; sneusatz@064gmail.com &gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt; marzio.logiudice@064gmail.com &gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt; georg.lippold@064gmx.de &gt; - initial implementation of NaaccacheStern cipher.

Chris Viles &lt; chris_viles@064yahoo.com &gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt; Pasi.Eronen@nokia.com &gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.

BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP
EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left
encode method.\\n\\nMaria Ivanova &lt;maria.ivanova@#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.\\nArmin H&auml;rungler &lt;arminha@#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX
validation classes.\\nMarius Schilder &lt;mschilder@#064google.com&gt; - main set of test vectors for Bleichenbacher’s forgery
attack.\\nXavier Le Vouch &lt;xavier@#064britanysoftware.com&gt; - general code clean ups.\\nErik Tews &lt;e_tews@#064cdec.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator,
constant-time PKCS#1.5 decoding.\\nThomas Dixon &lt;reikomusha@#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC,
and Noekeon. XTEA enhancements.\\nFrank Cornelis &lt;info@#064frankcornelis.be&gt; - addition of crlAccessMethod in
X509ObjectIdentifiers.\\nRui Joaquim &lt;rojaquim@#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.\\nDavid Stacey &lt;DStacey@#064allantgroup.com&gt; - addition of trust packet checking on revocation
signatures in PGPSecretKeyRing.\\nMartijn Brinkers &lt;list@#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time"
modifications for CRL and Sequence evaluation.\\nJulius Davies &lt;juliusdavies@#064gmail.com&gt; - additional modes and algorithm support in
PEMReader.\\nMatthias &lt;g@#064rtnur.de&gt; - GnuPG compatibility changes for PBEFileProcessor.\\nOlga K&auml;uthler &lt;olga.kaelthler@#064hp-consulting.com&gt; - initial implementation of TeleTrusT EC
curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.\\nGermano Rizzo &lt;germano.rizzo@#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and
HC-256, optimisations for Salsa20.\\nN&uacute;ria Mar&iacute; &lt;numaa@#064hotmail.com&gt; - patch for alternate data type recognition in
CMSSignedDataParser.\\nJanis Schuller &lt;js@#064tzi.de&gt; - addition of NotationData packets for OpenPGP.\\nMichael Samblanet &lt;Mike@#064samblanet.com&gt; - patches towards improved Sun/default provider
support in CMS.\\nMike StJohns &lt;mstjohns@#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate
generation, noneWithECDSA, updates to KeyPurposeId.\\nRamon Keller &lt;ramon.keller@#064gmx.ch&gt; - patch to deal with null revocations return from other CRL
in X509V2CRLGenerator.\\nMark Nelson &lt;mark@#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX
processing.\\nEugene Golushkov &lt;eugene_gff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.\\nJulien Pasquier &lt;julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and
signer certificates in the ASN.1 esf and ess libraries.\\nPeter Knopp &lt;pknopp@#064mgz.de&gt; - fix for named curve recognition in ECGOST key generation.\\nJakub Gwozdz &lt;gwozdziu@#064rg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.\\nBartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher,
VMPCRandomGenerator, VMPCMac.\\nTal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].\\nMassimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.comt&gt; - support for counter signature reading
in CMS API, update for multiple counter signature attributes.
Andrey Pavlenko &lt;andrey.a.pavlenko&#064;gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn&#064;jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz&#064;064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontini&#064;064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude &lt;roelof.naude&#064;064epius.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck#064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd&#064;064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene &lt;michael#064sigrund-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga &lt;ilarra#064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns#064positscience.com&gt; - fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer#064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore#064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;ruii#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic#064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;tobbe79#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bouncecastles_pfitz#064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson &lt;k.henrik.andersson#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

cagdascir#064gmail.com - subjectAlternativeName fix for x509CertStoreSelector.

Harakiri &lt;harakiri_23#064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pmahenriques#064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimmeringer &lt;job#064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal.

Richard Farr &lt;rfarr.se#064mail.com&gt; - initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione#064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani#064sogei.it&gt; - patch for recognising multiple counter signatures.

Robin Lundgren &lt;rl37lundgren#064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil#064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a#064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hsrawat#064yahoo.com&gt; - fix for BERConstructedOctetString.

Rolf Lindemann &lt;lindemann#064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible
attribute specifications [#BMA-42].</li>
<li>Alex Artamonov &lt;alexart.home&#064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole &lt;chris_h_cole&#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomas Krivanek &lt;tom&#064atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau&#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor&#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kilkarings &lt;markus&#064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis&#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith&#064604cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio&#064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex&#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant &lt;waynedgrant&#064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.</li>
<li>Frank Cornelis &lt;info&#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittberner &lt;jan&#064dittberner.info&gt; addHeader patch for SMIME generator.</li>
<li>Bob McGowan &lt;boab.mcgoo&#064cbnco.com&gt; patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis &lt;i.matheis&#064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini &lt;nessche&#064604cbnco.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf &lt;alfilmalf&#064604hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa &lt;alfonso.massa&#064604insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo&#064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis&#064604ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociski &lt;J.Sikocinski&#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev &lt;jhudolejev&#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
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<li>Atanas Krachev &lt;akrachev&#064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Mickael Laiking &lt;mickael.laiking&#064604keynectis.com&gt; initial cut of EAC classes.</li>
<li>Tim Buktu &lt;tbuktu&#064604hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Steing Inge Moribak &lt;stein.inge.moribak&#064604BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid&#064604tngtech.com&gt; Additional expiry time check in
Phil Steitz &lt;phil.steitz@064gmail.com&gt;: Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt;: Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov &lt;p.petrov@064bers-soft.com&gt;: Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt;: Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson@064quest.com&gt;: a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;txiao.xj@064gmail.com&gt;: patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rl6Y7VzI2Lvd2EUVW99v3yNV3IWROG8.fms&gt;: speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny@064the-b.org&gt;: patch for issuerAltName, subjectAltName support in X509CertificateObject. BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes@064gmail.com&gt;: initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b@064@yahoo.com&gt;: Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc@064carlstrom.com&gt;: compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidékeacuten Borell &lt;samuel@064primekey.se&gt;: patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@certimix.com&gt;: pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington@064orionhealth.com&gt;: patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@064primekey.se&gt;: patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for timestamp token generation.

Andrey Zhozhin &lt;zhozhin@064xrm.ru&gt;: patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d@064gmail.com&gt;: initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy@064gmail.com&gt;: ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt;: patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures()​.

Daniel Hirscher &lt;dev@064daniel-hirscher.de&gt;: patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome@064gmail.com&gt;: initial implementation of EC keys for OpenPGP and
RFC6637 support.

- Matti Aarnio &lt;matti.aarnio&#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.
- Babak Najafi &lt;bnajafi&#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.
- Eric M&auml;uml;ller &lt;eric.mueller&#064#064 sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.
- Mathias Herberts &lt;Mathias.Herberts&#064#064 gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.
- Daniil Ivanov &lt;daniil.ivanov&#064#064 gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.
- Daniele Grasso &lt;daniele.grasso86&#064#064 gmail.com&gt; contributions to final Key calculation code for SRP6.
- Andrey Utkin &lt;cindrhc&#064#064 gmail.com&gt; patch to reconstruction of ECOST keys from PrivateKeyInfo objects in provider classes.
- Arnis Tartu &lt;arnis&#064#064 ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.
- AxelVDB &lt;axel-vdb&#064#064 risetup.net&gt; initial implementation of Shacal2.
- Roberto Tyley &lt;rtyley&#064#064 tsl.org&gt; further work on completing gradle build.
- Waldemar Dick &lt;wdick&#064#064 devmue.de&gt; code improvement in x500 ASN.1 package.
- Sid Steward &lt;sid.steward&#064#064 pdflabs.com&gt; code improvements to ASN1Boolean.
- Alex Klyubin &lt;lklyubin&#064#064 google.com&gt; AlgorithmParameters check for EC key agreement.
- Jonathan Gillett &lt;gsoc.student&#064#064 gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
- Andreas Reiter &lt;andreas.reiter&#064#064 iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
- Kieran Miller &lt;kieran.miller&#064#064 gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.
- Oliver Ehli &lt;ehli&#064#064 arago.de&gt; Additional support for BSI plain ECDSA in the provider.
- Daniel Heldt &lt;daniel.Heldt&#064#064 cryptovision.com&gt; Initial support for encodable state message digests.
- Robert Bushman &lt;bounceycastle&#064#064 traexel.com&gt; Clean up of DirectKeySignature example.
- Maurice Aarts &lt;maarts&#064#064irschcure.com&gt; updated to KDF generator to follow NIST SP 800-108.
- Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.
- KB Sriram &lt;mail_kb&#064#064 yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.
- Marco Schulze &lt;marco&#064#064 nightlabs.de&gt; Reported verification bug in GenericSigner.
- Martin Schaef &lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.
- dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.
- Tobias Wich &lt;ttobias.wich&#064#064 ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
- Hauke Mehrtens &lt;hauke&#064#064 hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
- Daniel Zimmerman &lt;dmz&#064#064 galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.
- Jens Kapitzka &lt;j.tj.kapitzka&#064#064 schwarzwe-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.
- Johan Eklund &lt;johan&#064#064 primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.
Fix to encoding of EC private keys to ensure encoding matches order length.</li>

Axel von dem Bruch &lt;axel-vdb@#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>

Derek Atkins &lt;derek@#064htfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>

Peter Jr Halicky &lt;peto@#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>

lartiguePierre@https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>

Thomas Belot@https://github.com/thomas.belot+BC@#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>

Rich DiCroce@https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>

Bj&amp;ouml;rnn Kautler@https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>

Dominik Sch&amp;uuml;mmann@https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>

Michael &lt;MSKnete@web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys.</li>

Tobias Wagner &lt;tobias.wagner@#064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>

Sergio Giro &lt;sgiro@#064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>

bschuette@https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>

Leonard Dallot@https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>

Jan Willem Janssen &lt;j.w.janssen+bouncycastle@#064lxtrue.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>

Sebastian Oering &lt;sebastian.oering@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>

Kai Kramer &lt;kai.kramer@#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>

Benoit Charles &lt;benoit.charles@opentrust.com&gt; Fix for IES data length check on decryption.</li>

Niko &lt;nfinik95@#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>

akwizgran@https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.</li>

Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>

Lu&amp;kaz Deputat &lt;lu&amp;kaz.deputat@#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].</li>

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPOBJECTFactory to handle stream packets at start of iterated data.</li>

And&amp;eacute; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSPI.</li>

Slawomir Jaranowski@https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>

Andrey Vasilyev@https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>

William Glanton &lt;wglanton77@#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].
<li>jdvorak001 &lt;https://github.com/jdvorak001&gt;: Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle &lt;jnaegle#64grierforensics.com&gt;: Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt;: defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;gitrazoki#64wpi.edu&gt;: from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekwitsch &lt;joerg.senekwitsch#64veridos.com&gt;: patch to deal with hard coded boolean in EAC ECDSA PublicKey.</li>
<li>Alexandr Krivoshta &lt;wipe#64ya.ru&gt;: N4 calculation fix to GOFB mode.</li>
<li>Na Yu &lt;na.yu#64samsung.com&gt;: N4 calculation fix to GOFB mode.</li>
<li>Evangelos Karatsiolis &lt;ekaratsiolis#64mtg.de&gt;: Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>VivleSoren &lt;https://github.com/VivleSoren&gt;: additional constructor for McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig &lt;https://github.com/mtausig&gt;: JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland#64stud.tu-darmstadt.de&gt;: Initial XMSS/XMSS-MT implementation.</li>
<li>didisoft &lt;https://github.com/didisoft&gt;: test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt;: initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for EC GOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRL DistPoint.</li>
<li>Artem Storozhuk &lt;storozhuk#64gmail.com&gt;: initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>
<li>Andreas Glaser &lt;andreas.glaser#64gi-de.com&gt;: patch to recognise ANSSI curves for PKCS#10 requests.</li>
<li>codeborne &lt;https://github.com/cbxp&gt;: patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt;: patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt;: patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt;: corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt;: fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt;: initial implementation of Blake2s.</li>
<li>Scott Woodward &lt;scott#648bit3consulting.com&gt;: performance fixes for CTRSP800DRBG.</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt;: fix for off by one error in SCRYPT bounds checking.</li>
<li>chriss mccown &lt;0xchrismccown#64gmail.com&gt;: identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt;: offset patch for SM2 decrypt.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt;: NPE fix for CertTemplate.getVersion().</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;: identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt;: fix to ignore unnecessary checksum calculator on PGP
secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitas vitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu&#064;gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;up.gadermaier&#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode.</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
</ul>
1.626 guava 28.0

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1.641 openssl 1.0.2k 19.el7

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1.645 gmbal 4.0.0

1.646 txw2 2.3.0

1.647 rank-eval-client 6.8.1
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```

```java
package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
```
private static final int REMOVE = 16;
private static final int LISTEN = 32;
private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

public ListPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_ADD.equals(action)) {
            mask |= ADD;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}
package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }

        return mask;
    }

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     */

    package com.hazelcast.security.permission;

    import java.security.Permission;
    import java.security.PermissionCollection;
public abstract class ClusterPermission extends Permission {

    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashcode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
            hashcode = result;
        }
        return hashcode;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        ClusterPermission other = (ClusterPermission) obj;
        if (getName() == null && other.getName() != null) {
            return false;
        }
        if (!getName().equals(other.getName())) {
            return false;
        }
        return true;
    }
}
package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }

        return mask;
    }

    // Other methods...
}

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 */
return mask;
}
}

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 */

group com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}
package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
                mask |= PUBLISH;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}

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 */
package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}

package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;

    }
private static final int LISTEN = 32;
private static final int LOCK = 64;
private static final int INDEX = 128;
private static final int INTERCEPT = 256;
private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

public MapPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }
    return mask;
}

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*/

package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_ADD.equals(action)) {
            mask |= ADD;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {
        return "<all actions>";
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionsCollection();
    }

    @Override
    public String toString() {
        return "<allow all permissions>";
    }
}
@Override
class AllPermissionsCollection extends PermissionCollection {
  private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
  private boolean all;

  public AllPermissionsCollection() {
  }

  public AllPermissionsCollection(boolean all) {
    this.all = all;
  }

  @Override
  public void add(Permission permission) {
    if (permission instanceof AllPermissions) {
      all = true;
    }
  }

  @Override
  public boolean implies(Permission permission) {
    return all;
  }

  @Override
  public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
      boolean more = all;

      @Override
      public boolean hasMoreElements() {
        return more;
      }

      @Override
      public Permission nextElement() {
        more = false;
        return ALL_PERMISSIONS;
      }
    };
  }

  @Override
  public boolean equals(Object obj) {
    return obj instanceof AllPermissions;
  }

  @Override
  public int hashCode() {
    return 111;
  }
}
@Override
public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

@Override
public String toString() {
    return "<allow all permissions>";
}
}

package com.hazelcast.security.permission;

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 */
public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

public class FlakeIdGeneratorPermission extends InstancePermission {

    private static final int MODIFY = 4;

    private static final int ALL = MODIFY | CREATE | DESTROY;

    public FlakeIdGeneratorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else {
                return mask;
            }
        }
        return mask;
    }
}

package com.hazelcast.security.permission;

import com.hazelcast.internal.usercodedeploymentUserCodeDeploymentService;

public class UserCodeDeploymentPermission extends InstancePermission {
    private static final int DEPLOY = 4;
    private static final int ALL = DEPLOY;

    public UserCodeDeploymentPermission(String... actions) {
        super(UserCodeDeploymentService.SERVICE_NAME, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_USER_CODE_DEPLOY.equals(action)) {
                mask |= DEPLOY;
            }
        }

        return mask;
    }
}

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*/

package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountDownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            }
        }
        return mask;
    }
}

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*/

package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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     * limitations under the License.
     */

    package com.hazelcast.security.permission;

    public class DurableExecutorServicePermission extends InstancePermission {

        private static final int ALL = CREATE | DESTROY;

        public DurableExecutorServicePermission(String name, String... actions) {
            super(name, actions);
        }

        @Override
        protected int initMask(String[] actions) {
            int mask = NONE;
            for (String action : actions) {
                if (ActionConstants.ACTION_ALL.equals(action)) {
                    return ALL;
                }
                if (ActionConstants.ACTION_CREATE.equals(action)) {
                    mask |= CREATE;
                } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                    mask |= DESTROY;
                }
            }
            return mask;
        }

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package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }

        return mask;
    }

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     */
package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }

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*/
package com.hazelcast.security.permission;
import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;
import java.security.Permission;
/**
* TODO: Object Permission
*/
public abstract class InstancePermission extends ClusterPermission {
protected static final int NONE = 0;
protected static final int CREATE = 1;
protected static final int DESTROY = 2;
private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();
protected final int mask;
protected final String actions;
public InstancePermission(String name, String... actions) {
super(name);
if (name == null || "".equals(name)) {
throw new IllegalArgumentException("Permission name is mandatory!");
}
mask = initMask(actions);
final StringBuilder s = new StringBuilder();
for (String action : actions) {
s.append(action).append(" ");
}
// trim the trailing space
if (s.length() > 0) {

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s.setLength(s.length() - 1);
}
this.actions = s.toString();
}

/**
 * init mask
 */
protected abstract int initMask(String[] actions);

@Override
public boolean implies(Permission permission) {
    if (this.getClass() != permission.getClass()) {
        return false;
    }

    InstancePermission that = (InstancePermission) permission;

    boolean maskTest = ((this.mask & that.mask) == that.mask);
    if (!maskTest) {
        return false;
    }

    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    return true;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    return true;
}
return false;
}
InstancePermission other = (InstancePermission) obj;
if (getName() == null && other.getName() != null) {
    return false;
}
if (!getName().equals(other.getName())) {
    return false;
}
if (mask != other.mask) {
    return false;
}
return true;
}

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 */

package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            ++mask;
        }
        return mask;
    }
}
if (ActionConstants.ACTION_ALL.equals(action)) {
    return ALL;
}

if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}

return mask;

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 */

package com.hazelcast.security.permission;

public class PNCounterPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public PNCounterPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {

        return ALL;
    }
}
int mask = NONE;
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;

package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }
}
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
        
    }

    @Override
    public void add(Permission permission) {
        
    }


@Override
public boolean implies(Permission permission) {
    return false;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        @Override
        public boolean hasMoreElements() {
            return false;
        }

        @Override
        public Permission nextElement() {
            return null;
        }
    };
}

@Override
public int hashCode() {
    return 37;
}

@Override
public String toString() {
    return "<deny all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}

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package com.hazelcast.security.permission;

import java.security.Permission;

/**
 * public class ConfigPermission extends ClusterPermission {

    private static final String CONFIG_PERMISSION_NAME = "<config>";
    private static final String CONFIG_PERMISSION_ACTIONS = "config";

    public ConfigPermission() {
        super(CONFIG_PERMISSION_NAME);
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return CONFIG_PERMISSION_ACTIONS;
    }
    */

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {
    public SemaphorePermission() {
        super("SemaphorePermission");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "SemaphorePermission";
    }
}
private static final int ACQUIRE = 4;
private static final int RELEASE = 8;
private static final int READ = 16;

private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

public SemaphorePermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
            mask |= ACQUIRE;
        } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
            mask |= RELEASE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}

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 */
package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}

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 */
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    @Override
    public void add(Permission permission) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
                || (permission instanceof ClusterPermission) &&
                (permission instanceof ClusterPermission);
        if (shouldAdd && !implies(permission)) {
            perms.add(permission);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
    }
}
if (permissions instanceof ClusterPermissionCollection) {
    for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
        add(p);
    }
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
    setReadOnly();
}

@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}
package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            }
        }
        return mask;
    }
}

@override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}
}
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}

return mask;
}

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 */

/**
 * Contains Hazelcast client permissions.
 *
 * @see com.hazelcast.security.jsm
 */
package com.hazelcast.security.permission;
package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.cp.internal.datastructures.atomiclong.RaftAtomicLongService;
import com.hazelcast.cp.internal.datastructures.atomicref.RaftAtomicRefService;
import com.hazelcast.cp.internal.datastructures.countdownlatch.RaftCountDownLatchService;
import com.hazelcast.cp.internal.datastructures.lock.RaftLockService;
import com.hazelcast.cp.internal.datastructures.semaphore.RaftSemaphoreService;
import com.hazelcast.crdt.pncounter.PNCounterService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.flakeidgen.impl.FlakeIdGeneratorService;
import com.hazelcast.internal.usercodedeploymentUserCodeDeploymentService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;
import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

@SuppressWarnings({"checkstyle:executablestatementcount"})
public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
    public static final String ACTION_ADD = "add";
    public static final String ACTION_INDEX = "index";
    public static final String ACTION_INTERCEPT = "intercept";
    public static final String ACTION_PUBLISH = "publish";
    public static final String ACTION_AGGREGATE = "aggregate";
    public static final String ACTION_PROJECTION = "projection";
    public static final String ACTION_USER_CODE_DEPLOY = "deploy";

    public static final String LISTENER_INSTANCE = "instance";
    public static final String LISTENER_MEMBER = "member";
    public static final String LISTENER_MIGRATION = "migration";

    private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String, PermissionFactory>();

    static {
        PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
            @Override
            public Permission create(String name, String... actions) {
                return new QueuePermission(name, actions);
            }
        });
        PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
            @Override
            public Permission create(String name, String... actions) {
                return new MapPermission(name, actions);
            }
        });
        PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
            @Override
            public Permission create(String name, String... actions) {
                return new MultiMapPermission(name, actions);
            }
        });
    }
}
PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ListPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SetPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RaftAtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RaftCountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RaftSemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});
return new SemaphorePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RaftLockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(FlakeIdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new FlakeIdGeneratorPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});
public Permission create(String name, String... actions) {
    return new ReplicatedMapPermission(name, actions);
}
}

PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RaftAtomicRefService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(UserCodeDeploymentService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return newUserCodeDeploymentPermission(actions);
    }
}
PERMISSION_FACTORY_MAP.put(PNCounterService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new PNCounterPermission(name, actions);
    }
});

private ActionConstants() {
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

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*/

package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {
    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}

1.653 pfl-asm 4.0.1

1.654 lcms 11.0.6.10-1.el7_7
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