Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)

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1.1 attr 2.4.46-13.el7_9.0atomix1

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 */
* @return the underlying sessionProxy for this connection
*/

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?q   to Quit.
?q   lists Special Commands.
:?:   lists Edit-Buffer/History commands.
*:?   lists PL commands.
/l?:  displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with `\` and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with `:' and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with `*` and end when you hit ENTER.
MACRO executions and definitions begin with `'/` and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted `;' (which executes the statement), or a blank line (which moves the statement into the edit buffer without executing).
After turning on variable expansion with command `"*" (or any other PL command), PL variables may be used in most commands like so: `*{PLVARNAME}.
Be aware when using regular expressions on commands, that the regex.s operate only on the command text after the * or \ prefix, if any.

Found in path(s):
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/cmdline/sqltool/SqlFile.banner.text
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*/

/* These are commands which may contain nested commands and/or which
 * require the closing semicolon to send to the DB engine.
 * The BEGIN and DECLARE needed for PL/SQL probably do not need to
 * terminate the line, as we have it specified here, but I'd rather not be
 * too liberal with proprietary SQL like this, because it's easy to
 * envision other proprietary or non-proprietary commands beginning with
 * DECLARE or BEGIN. */

Found in path(s):
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-
  jar/org/hsqldb/cmdline/sqltool/SqlFileScanner.java
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* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/util/package-info.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/TarHeaderField.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/util/InformixTransferHelper.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/jdbc/JDBCCallableStatement.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/InputStreamInterface.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/jdbc/JDBCSavepoint.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/StringUtil.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/ParserRoutine.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/rights/User.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/persist/DataFileCacheSession.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/LongValueHashMap.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/server/JsqSocketFactorySecure.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/ParserRoutine.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/rights/User.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/persist/DataFileCacheSession.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/MultiValueHashMap.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/View.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/scriptio/StatementLineTypes.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/OrderedHashSet.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/navigator/RangeIterator.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/RowAVLDiskLarge.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/persist/RowStoreAVLDisk.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/util/JDBCTypes.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/rowio/RowOutputBinaryEncode.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/test/TestDirectorySettings.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/types/BlobInputStream.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/persist/DataSpaceManagerSimple.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/auth/JaasAuthBean.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/TableWorks.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/FileUtil.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/persist/TextFileSettings.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/server/ServerConstants.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/test/TestAcl.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/test/TestSubselect.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/jdbc/JDBCArrayBasic.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/navigator/RowIterator.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/NavigatorRowIterator.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/reader/RowReader.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/jdbc/JDBCConnection.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/package-info.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/server/ServerInterface.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/test/TestCursor.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/test/TestPreparedStatement.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/test/TestRowId.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/util/SqlServerTransferHelper.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/util/SqlServerTransferHelper.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/util/SqlServerTransferHelper.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/util/SqlServerTransferHelper.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/util/SqlServerTransferHelper.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/util/SqlServerTransferHelper.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/util/SqlServerTransferHelper.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/tar/package-info.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/StringInputStream.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/tar/package-info.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/HSQArrayList.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/CommonSwing.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/result/ResultProperties.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/scriptio/ScriptWriterText.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/server/HsqlSocketFactory.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/persist/RowInsertInterface.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/types/BooleanType.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/HsqlArrayList.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/jdbc/JDBCDataSource.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/server/OdbcPacketOutputStream.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/persist/PersistentStoreCollectionSession.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/TransactionManagerMVCC.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/lib/FrameworkLogger.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/ParserCommand.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/rowio/RowInputBinaryDecode.java
* /opt/cola/permits/1178652629_1625715502.66/0/hsqldb-2-5-2-sources-jar/org/hsqldb/server/ServerProperties.java
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Comprehensive information about the database as a whole.

This interface is implemented by driver vendors to let users know the capabilities of a Database Management System (DBMS) in combination with the driver based on JDBC technology. "JDBC driver" that is used with it. Different relational DBMSs often support different features, implement features in different ways, and use different data types. In addition, a driver may implement a feature on top of what the DBMS offers. Information returned by methods in this interface applies to the capabilities of a particular driver and a particular DBMS working together. Note that as used in this documentation, the term "database" is used generically to refer to both the driver and DBMS.

A user for this interface is commonly a tool that needs to discover how to deal with the underlying DBMS. This is especially true for applications that are intended to be used with more than one DBMS. For example, a tool might use the method `<code>getTypeInfo</code>` to find out what data types can be used in a `CREATE TABLE` statement. Or a user might call the method `<code>supportsCorrelatedSubqueries</code>` to see if it is possible to use...
Some `DatabaseMetaData` methods return lists of information in the form of `ResultSet` objects. Regular `ResultSet` methods, such as `getString` and `getInt`, can be used to retrieve the data from these `ResultSet` objects. If a given form of metadata is not available, an empty `ResultSet` will be returned. Additional columns beyond the columns defined to be returned by the `ResultSet` object for a given method can be defined by the JDBC driver vendor and must be accessed by their column label.

Some `DatabaseMetaData` methods take arguments that are String patterns. These arguments all have names such as `fooPattern`. Within a pattern String, `%` means match any substring of 0 or more characters, and `_` means match any one character. Only metadata entries matching the search pattern are returned. If a search pattern argument is set to `null`, that argument's criterion will be dropped from the search.

A method that gets information about a feature that the driver does not support will throw an `SQLException`.

In the case of methods that return a `ResultSet` object, either a `ResultSet` object (which may be empty) is returned or an `SQLException` is thrown.

Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production implementation provided in the default build filters metadata based on each SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2 restriction that only users with the DBA role ('admin' users in older HSQLDB parlance) could expect trouble-free access to all metadata.

Also starting with HSQLDB 1.7.2, the metadata table production implementation classes are loaded dynamically, using a precedence policy to find and load the richest producer available at runtime. In the event that no better alternative is found, the default minimal (completely restricted) provider is selected. Under this scheme, it is possible for third party packagers to create custom distributions targeted at supporting full (design-time), custom-written (proprietary / micro environment), minimal (production-time)
* or completely-restricted (space-constrained | device embedded | real-time | hostile environment) metadata table production scenarios. To learn more
* about this option, interested parties can review the documentation and source
* code for the `<code>org.hsqldb.dbinfo.DatabaseInformation</code>` class.

* Please also note that in addition to the metadata tables produced to
* directly support this class, starting with HSQLDB 1.7.2, the default build
* provides many additional tables covering all or most HSQLDB features, such
* as descriptions of the triggers and aliases defined in the database. <p>

* For instance, in the default build, a fairly comprehensive description of
* each `INFORMATION_SCHEMA` table and each `INFORMATION_SCHEMA` table
* column is included in the `REMARKS` column of the { @link #getTables(
* java.lang.String, java.lang.String, java.lang.String, java.lang.String[])
* getTables(...)) and { @link #getColumns(java.lang.String, java.lang.String,
* java.lang.String, java.lang.String) getColumns(...)) results, which derive
* from `INFORMATION_SCHEMA.SYSTEM_TABLES` and `INFORMATION_SCHEMA.SYSTEM_COLUMNS`,
* respectively. <p>

* Since HSQLDB 2.0 the `INFORMATION_SCHEMA` views have been vastly expanded
* in compliance with the SQL:2011 Standard and report the properties of all
* database objects. <p>

* <h2>Schema Metadata</h2>

* The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and
* this fact is reflected in the all subsequent versions of this class.

* <h2>Catalog Metadata</h2>

* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
* is a major theme which is reflected in the provision of the majority of the
* standard-defined full-name `INFORMATION_SCHEMA` views. <p>

* However, just as CATALOG semantics and handling are still considered to be
* implementation defined by the most recent SQL standard (SQL:2008), so is the
* HSQLDB CATALOG concept still in the process of being defined and refined in
* HSQLDB 2.x. and beyond. <p>

* Previous to HSQLDB 2.x, there were, at various points in time, experimental
* features provided to turn on pseudo catalog (and before that, pseudo-schema)
* reporting in the system tables, using the database properties
* `hsqldb.catalogs` and `hsqldb.schemas`, respectively. <p>

* However, once the engine fully supported the SQL SCHEMA concept, the
* experimental `hsqldb.schemas` database property was retired. <p>

* Similarly, starting with HSQLDB 2.x, the `hsqldb.catalogs` database property
has been retired and replaced with the convention that, from the perspective
of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB
database instance which consists of a single, default CATALOG
named PUBLIC in which each SCHEMA instance of the database resides. The name of
this catalog can be changed with the ALTER CATALOG &lt;name&gt; RENAME TO statement.
As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of
database objects at the syntactic level, but does not yet support operations
such as opening, manipulating or querying against multiple database
catalogs within a single session, not even in a one-at-a-time fashion.

<h2>Index Metadata</h2>

It must still be noted that as of the most recent release, HSQLDB continues
to ignore the <code>approximate</code> argument of {@link #getIndexInfo
getIndexInfo()} as no data is returned for CARDINALITY and PAGES columns.

<h2>Notes for developers extending metadata table production</h2>

Note that in the absence of an ORDER BY clause, queries against the metadata
tables that directly support this class are expected to return rows in JDBC
contract order. The reason for this is that results typically come
back much faster when no &quot;ORDER BY&quot; clause is used. <p>

As such, when adding, extending or replacing a JDBC database metadata table
production routine, developers need to be aware of this fact and either add the
contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible,
preferably maintain rows in the contract order by correctly coding the
primary index definition in the table producer class.

</div>

(fredt@users)<br>
(campbell-burnet@users)
</div>

<!-- end release-specific documentation -->

@author Campbell Burnet (campbell-burnet@users dot sourceforge.net)
@author Fred Toussi (fredt@users dot sourceforge.net)
@version 2.6.0
@since HSQLDB 1.9.0
@see org.hsqldb.dbinfo.DatabaseInformation
*/

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1.10 jackson-datatype-jdk8 2.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1595301005506
Build-Jdk: 1.8.0_162
Built-By: tatu
Bundle-Description: Add-on module for Jackson (http://jackson.codehaus.org) to support JDK 8 data types.
Bundle-DocURL: https://github.com/FasterXML/jackson-modules-java8/jackson-datatype-jdk8
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jackson datatype: jdk8
Bundle-SymbolicName: com.fasterxml.jackson.datatype.jackson-datatype-jdk8
Bundle-Vendor: FasterXML
Bundle-Version: 2.10.5
Created-By: Apache Maven Bundle Plugin
Implementation-Build-Date: 2020-07-21 03:09:44+0000
Implementation-Title: Jackson datatype: jdk8
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.jackson.datatype
Implementation-Version: 2.10.5
Import-Package: com.fasterxml.jackson.core;version="[2.10,3)",com.fasterxml.jackson.core.io;version="[2.10,3)",com.fasterxml.jackson.core.util"
**1.11 eventlet 0.31.1**

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1.13 opentest4j 1.2.0

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  jar/io/netty/handler/codecs/http/readonly/ReadOnlyHttpHeaders.java
* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
  jar/io/netty/handler/codecs/http/ServerCookieEncoder.java

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  jar/io/netty/handler/codec/http/DefaultLastHttpContent.java
* /opt/cola/permits/1110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
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  jar/io/netty/handler/codec/http/CookieDecoder.java
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  jar/io/netty/handler/codec/http/HttpConstants.java
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* /opt/cola/permits/1110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java
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  jar/io/netty/handler/codec/http/HttpConstants.java
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  jar/io/netty/handler/codec/http/rtsp/RtspMethods.java
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  jar/io/netty/handler/codec/spdy/DefaultSpdy SETTINGSFrame.java
* /opt/cola/permits/1110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/multipart/MemoryFileUpload.java
* /opt/cola/permits/1110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/multipart/DefaultHttpDataFactory.java
* /opt/cola/permits/1110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/websocketx/WebSocketClientHandshaker00.java
* /opt/cola/permits/1110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/multipart/HttpPostMultiPartRequestDecoder.java
* /opt/cola/permits/1110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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1.16 maven-shared-io 1.1

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1.17 go-radix 1.0.0

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1.18 grpc-context 1.20.0

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 * /opt/cola/permits/1142949848_1615493964.03/0/grpc-context-1-20-0-sources-jar/io/grpc/ThreadLocalContextStorage.java

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1.19 maven-artifact-manager 2.0.9

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1.20 jetty-util 9.3.9.v20160517

1.21 lombok 1.18.10

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1.22 libffi 3.3 4

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jar/io/netty/handler/codec/CharSequenceValueConverter.java
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* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
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* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4.1.43-final-sources-1.jar/io/netty/handler/codec/base64/package-info.java
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jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
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jar/io/netty/handler/codec/base64/Base64Decoder.java
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jar/io/netty/handler/codec/ByteToMessageDecoder.java
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* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4.1.43-final-sources-1-
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/**
 * Enumeration of supported Base64 dialects.
 * <p>
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/*/
A decoder that splits the received ByteBufs dynamically by the value of the length field in the message. It is particularly useful when you decode a binary message which has an integer header field that represents the length of the message body or the whole message.

{@link LengthFieldBasedFrameDecoder} has many configuration parameters so that it can decode any message with a length field, which is often seen in proprietary client-server protocols. Here are some example that will give you the basic idea on which option does what.

2 bytes length field at offset 0, do not strip header:

The value of the length field in this example is 12 (0x0C) which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

LengthFieldOffset   = 0
LengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0 (= do not strip header)

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+

2 bytes length field at offset 0, strip header:

Because we can get the length of the content by calling

ByteBuf#readableBytes(), you might want to strip the length field by specifying initialBytesToStrip. In this example, we specified 2, that is same with the length of the length field, to strip the first two bytes.

lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)

BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
+--------+----------------+      +--------+----------------+
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +----------------+      +----------------+
* </pre>
*
* ch3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* &lt;tt&gt;lengthAdjustment&lt;/tt&gt;. Because the length value in this example message
* is always greater than the body length by &lt;tt&gt;2&lt;/tt&gt;, we specify &lt;tt&gt;-2&lt;/tt&gt;
* as &lt;tt&gt;lengthAdjustment&lt;/tt&gt; for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* &lt;b&gt;lengthAdjustment&lt;/b&gt; = &lt;b&gt;-2&lt;/b&gt; (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* ch3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. &lt;tt&gt;lengthAdjustment&lt;/tt&gt; is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* &lt;b&gt;lengthFieldOffset&lt;/b&gt; = &lt;b&gt;2&lt;/b&gt; (= the length of Header 1)
* &lt;b&gt;lengthFieldLength&lt;/b&gt; = &lt;b&gt;3&lt;/b&gt;
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* ch3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
<b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+
</pre>

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```plaintext
lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
<b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
<b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
```

BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+
</pre>

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
* Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
* AFTER DECODE (13 bytes)
* +--------+----------------+      +--------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4.1-43-final-sources-1-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4.1-43-final-sources-1-
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* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/AbstractStreamingXXHash32Java.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4HCJNICompressor.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/XXHashFactory.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4FrameOutputStream.java
1.30 maven-monitor 2.2.1

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1.31 jackson-annotations 2.10.1

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1.32 jest-common 6.3.1

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1.33 minio-go v7.0.10

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 */

package minio
import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"
    
    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
    XMLNS string `xml:"xmlns,attr,omitempty"
    XMLName xml.Name `xml:"LegalHold"
    Status LegalHoldStatus `xml:"Status,omitempty"
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status   *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
if status == nil {
    return nil, fmt.Errorf("Status not set")
}
if !status.IsValid() {
    return nil, fmt.Errorf("invalid legal hold status \%v\", status)
}
legalHold := &objectLegalHold{
    Status: *status,
}
return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }
    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }
    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    reqMetadata := requestMetadata{
bucketName:           bucketName,
objectName:          objectName,
queryValues:         urlValues,
contentBody:         bytes.NewReader(lhData),
contentLength:       int64(len(lhData)),
contentMD5Base64:     sumMD5Base64(lhData),
contentSHA256Hex:     sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
def er closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")

    if opts.VersionID != "" {
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:           bucketName,
        objectName:          objectName,
        queryValues:         urlValues,
        contentSHA256Hex:     emptySHA256Hex,
    })

defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
    lh := &objectLegalHold{
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
    return &lh.Status, nil
}
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```makefile
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```
## Shared library options

LD_SOOPTIONS= -Wl,-Bs symbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n | sed \"v\s([^#])\)o[ :]*\A.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n | sed \"v\s([^#])\)o[ :]*\A.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ & & ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ & & ln -s ${*F} $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bs symbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

### 1.35 dns-python 1.16.0
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* /opt/ws_local/PERMITS_SQL/1068792420_1594430435.6/0/netty-codec-socks-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /opt/ws_local/PERMITS_SQL/1068792420_1594430435.6/0/netty-codec-socks-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1068792420_1594430435.6/0/netty-codec-socks-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
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  jar/io/netty/handler/codec/socks/SocksInitResponse.java
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  jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java
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  jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
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  jar/io/netty/handler/codec/socks/CommonUtils.java
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* /opt/ws_local/PERMITS_SQL/1068792420_1594430435.6/0/netty-codec-socks-4-1-43-final-sources-1-
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  jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
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**1.38 spring-security-core 5.2.2.RELEASE**

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  jar/org/springframework/security/access/vote/package-info.java
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  jar/org/springframework/security/core/token/Sha512DigestUtils.java
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/**
 *
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

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* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
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 */

/**
 * A token issued by { @link TokenService }
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and
 * secured that they can serve as identifying a unique user session. Implementations of
* { @link TokenService } are free to use encryption or encoding strategies of their choice.
* It is strongly recommended that keys are of sufficient length to balance safety against
* persistence cost. In relation to persistence cost, it is strongly recommended that
* returned keys are small enough for encoding in a cookie.
* </p>
*
* @author Ben Alex
* @since 2.0.1
*/

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* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/authentication/AccountExpiredException.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/authentication/AnonymousAuthenticationProvider.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/authentication/jaas/AuthorityGranter.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/authentication/jaas/JaasAuthenticationProvider.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/authentication/jaas/JaasAuthenticationCallbackHandler.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/core/session/SessionInformation.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/authentication/AbstractAuthenticationToken.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/authentication/TestingAuthenticationToken.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/access/event/AuthorizationFailureEvent.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/access/util/SimpleMethodInvocation.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1.jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1-
jar/org/springframework/security/core/context/SecurityContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/access/intercept/MethodInvocationPrivilegeEvaluator.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/access/InterceptStatusToken.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/access/intercept/InterceptorStatusToken.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/AnonymousAuthenticationToken.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/core/AuthenticationToken.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/core/AuthenticationFailureException.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/core/AuthenticationFailureDisabledEvent.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/core/AuthenticationFailureLockedEvent.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/core/AuthenticationFailureInterceptorStatusToken.java
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 */

/**
 * Reviews the <code>Object</code> returned from a secure object invocation, being able to
 * modify the <code>Object</code> or throw an [ @link AccessDeniedException ].
 * <p>
 * Typically used to ensure the principal is permitted to access the domain object
 * instance returned by a service layer bean. Can also be used to mutate the domain object
 * instance so the principal is only able to access authorised bean properties or
 * <code>Collection</code> elements.
 * <p>
 * Special consideration should be given to using an <code>AfterInvocationManager</code>
 * on bean methods that modify a database. Typically an
 * <code>AfterInvocationManager</code> is used with read-only methods, such as
 * <code>public DomainObject getId(id)</code>. If used with methods that modify a
 * database, a transaction manager should be used to ensure any
 * <code>AccessDeniedException</code> will cause a rollback of the changes made by the
 * transaction.
 * <p>
 * @author Ben Alex
 */

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* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/access/intercept/AfterInvocationManager.java
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* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/ReactiveAuthenticationManagerResolver.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/core/userdetails/UserDetailsPasswordService.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/crypto/argon2/Argon2PasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/event/LogoutSuccessEvent.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/ReactiveAuthenticationManagerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/UserDetailsRepositoryReactiveAuthenticationManager.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/converter/RsaKeyConverters.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/access/annotation/access/PreInvocationAdvice.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/AuthenticationManagerResolver.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/ReactiveAuthenticationManagerResolver.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/core/userdetails/UserDetailsPasswordService.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/crypto/argon2/Argon2PasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/event/LogoutSuccessEvent.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/ReactiveAuthenticationManagerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/UserDetailsRepositoryReactiveAuthenticationManager.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/converter/RsaKeyConverters.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/access/annotation/access/PreInvocationAdvice.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/AuthenticationManagerResolver.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
jar/org/springframework/security/crypto/scrypt/SCryptPasswordEncoder.java
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jar/org/springframework/security/provisioning/JdbcUserDetailsManager.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
jar/org/springframework/security/crypto/password/MessageDigestPasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
jar/org/springframework/security/access/prepost/PrePostAdviceReactiveMethodInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
jar/org/springframework/security/core/userdetails/ReactiveUserDetailsPasswordService.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
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 */

/**
 * Determines if the [@link #getAuthentication()] has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission is granted to the [@link #getAuthentication()], else
 * false
 */

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 */
/**
 * Base64 encoder which is a reduced version of Robert Harder's public domain
 * implementation (version 2.3.7). See <a
 * href="http://iharder.sourceforge.net/current/java/base64/"">http://iharder.sourceforge.net/current/java/base64/</a>
 * for more information.
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 *
 * @author Luke Taylor
 * @since 3.0
 * @deprecated Use java.util.Base64
 */

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* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5.2.2-release-sources-1-
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1.39 xkeyboard-config 2.24 1.el7
1.40 json-smart 1.1.1

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* /opt/cola/permits/1139931686_1614708818.97/0/json-smart-1-1-1-sources-1-jar/net/minidev/json/JSONArray.java
1.41 hibernate 5.4.9.Final
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1.43 surefire-extensions-api 3.0.0-M4

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* /opt/cola/permits/1139589042_1614664668.68/0/asm-tree-5-0-1-sources-2.jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1139589042_1614664668.68/0/asm-tree-5-0-1-sources-2.jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1139589042_1614664668.68/0/asm-tree-5-0-1-sources-2.jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1139589042_1614664668.68/0/asm-tree-5-0-1-sources-2.jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1139589042_1614664668.68/0/asm-tree-5-0-1-sources-2.jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1139589042_1614664668.68/0/asm-tree-5-0-1-sources-2.jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1139589042_1614664668.68/0/asm-tree-5-0-1-sources-2.jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1139589042_1614664668.68/0/asm-tree-5-0-1-sources-2.jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1139589042_1614664668.68/0/asm-tree-5-0-1-sources-2.jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1139589042_1614664668.68/0/asm-tree-5-0-1-sources-2.jar/org/objectweb/asm/Handler.java
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*/
/**
 * Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [@link Type Type]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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 */

/**
 * Constructs a new [ @link ClassNode ]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ @link #ClassNode(int) ]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):
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 */
/**
 * Constructs a new [Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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  jar/org/objectweb/asm/attrs/package.html
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  jar/org/objectweb/asm/package.html
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  jar/org/objectweb/asm/tree/package.html
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  jar/org/objectweb/asm/signature/package.html
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  jar/org/objectweb/asm/tree/analysis/package.html
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*/
/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [{ @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 *            the owner's class name.
 * @param access
 *            the method's access flags (see { @link Opcodes}).
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see { @link Type Type}).
 * @param mv
 *            the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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*/
/**
* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor. Instead, they must use the
  * @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])
  * version.

  *
  * @param mv
  * the <code>MethodVisitor</code> to send the resulting inlined
  * method code to (use <code>null</code> for none).
  * @param access
  * the method's access flags (see { @link Opcodes}). This
  * parameter also indicates if the method is synthetic and/or
  * deprecated.
  * @param name
  * the method's name.
  * @param desc
  * the method's descriptor (see { @link Type}).
  * @param signature
  * the method's signature. May be <tt>null</tt>.
  * @param exceptions
  * the internal names of the method's exception classes (see
  * { @link Type#getName()}). May be
  * <tt>null</tt>.
  * @throws IllegalStateException
  *            If a subclass calls this constructor.
  */

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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

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  jar/org/objectweb/asm/TypeReference.java
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    # Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
    #
    #$Log: ernolist.a,v$
    # Revision 3.0 1993/08/18 12:04:35 ram
    # Baseline for dist 3.0 netwide release.
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1.47 x-sync v0.0.0-20201020160332-67f06af15bc9

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1.49 coreutils 8.30 3ubuntu2

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1.56 json-delta 2.0

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1.57 javapackages-tools 5.3.0-9.el7_9.0atomix1
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1.58 plexus-utils 3.1.0

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1.59 tzlocal 1.5.1-2.ph3

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1.60 maven-model 2.0.9

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1.61 common-junit4 2.12.4
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* /opt/cola/permits/1140681744_1614870559.88/0/spring-messaging-5-2-5-release-sources-2-jar/org/springframework/messaging/handler/invocation/AbstractAsyncReturnValueHandler.java
* /opt/cola/permits/1140681744_1614870559.88/0/spring-messaging-5-2-5-release-sources-2-jar/org/springframework/messaging/core/BeanFactoryMessageChannelDestinationResolver.java
* /opt/cola/permits/1140681744_1614870559.88/0/spring-messaging-5-2-5-release-sources-2-jar/org/springframework/messaging/simp/annotation/support/SubscriptionMethodReturnValueHandler.java
* /opt/cola/permits/1140681744_1614870559.88/0/spring-messaging-5-2-5-release-sources-2-jar/org/springframework/messaging/handler/annotation/support/MethodArgumentTypeMismatchException.java
* /opt/cola/permits/1140681744_1614870559.88/0/spring-messaging-5-2-5-release-sources-2-jar/org/springframework/messaging/simp/annotation/support/SubscriptionMethodReturnValueHandler.java
* /opt/cola/permits/1140681744_1614870559.88/0/spring-messaging-5-2-5-release-sources-2-jar/org/springframework/messaging/simp/user/RegistryMessageHandler.java
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* /opt/cola/permits/1140681744_1614870559.88/0/spring-messaging-5-2-5-release-sources-2-jar/org/springframework/messaging/support/ErrorMessage.java
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*/opt/cola/permits/1140681744_1614870559.88/0/spring-messaging-5-2-5-release-sources-2-jar/org/springframework/messaging/simp/stomp/StompDecoder.java
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*/opt/cola/permits/1140681744_1614870559.88/0/spring-messaging-5-2-5-release-sources-2-jar/org/springframework/messaging/handler/invocation/reactive/AbstractMethodMessageHandler.java

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* /opt/cola/permits/1140681744_1614870559.88/0/spring-messaging-5-2-5-release-sources-2-jar/org/springframework/messaging/handler/annotation/support/MessageMethodArgumentResolver.java
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*/
/**
* Set the max pool size of the ThreadPoolExecutor.
* <p><strong>NOTE:</strong> 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.
* By default this is set to [@code Integer.MAX_VALUE].
*/

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```java
/**
 * Local stub for clients to access one (or more) GossipServers. Will use proprietary protocol
 * (using GossipData PDUs) based on TCP to connect to GossipServer.<p>
 * Requires JDK &ge; 1.3 due to the use of Timer<p>
 * todo: make access to multiple GossipServer concurrent (1 thread/GossipServer)<p>
 * @author Bela Ban Oct 4 2001
 */
```

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1.69 rocksdb 5.18.3

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

(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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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
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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.

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

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

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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.

d) 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.

e) 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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That's all there is to it!

1.72 python-dateutil 2.7.5

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1.73 bash 5.0 6ubuntu1.1

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

------

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

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

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

------

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

------

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.75 jackson-module-parameter-names 2.11.4
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====================================================================
/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * 
 * Futurework: have this read version info from jar manifest.
 * 
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "+getMajorVersionNum()+"."+getReleaseVersionNum()+"."+
    +(getDevelopmentVersionNum() > 0) ?
        ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 * 
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th
* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/

```java
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
```

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */

```java
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
```

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */

```java
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
```

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
* completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.

* Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.

*/

public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
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*/
/**
* This is a special exception that is used to stop parsing when search for an element. For instance, when searching for xml:stylesheet PIs, it is used to stop the parse once the document element is found.
@see StylesheetPIHandler
@xsl.usage internal
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
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*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
 public final class Version {

  /**
   * Get the basic version string for the current Serializer.
   * Version String formatted like
   * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
   * 
   * Futurework: have this read version info from jar manifest.
   * 
   * @return String denoting our current version
   */
  public static String getVersion() {
  }

  /**
   * Print the processor version to the command line.
   *
   * @param argv command line arguments, unused.
   */
  public static void main(String argv[]) {
    System.out.println(getVersion());
  }

  /**
   * Name of product: Serializer.
   */
  public static String getProduct() {
  }
}
return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
* When missing, it designates the final and complete
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public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

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 * Development Drop Number.
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 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
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*/
/**
* Major version number.
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th
* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
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// Proprietary
/** The 'document-location()' id (Proprietary). */

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Found in path(s):
*/

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 549
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Makefile.inc

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties

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*/

/∗
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/∗
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code { :
    /**
     * Used by function calls with no args.
     */
    static public final Vector EmptyArgs = new Vector(0);

    /**
     * Reference to non-existing variable.
     */
    static public final VariableRef DummyVarRef = null;

    /**
     * Reference to the Parser class.
     */
    private Parser _parser;
    private XSLTC _xsltc;

    /**
     * String representation of the expression being parsed.
     */
    private String _expression;

    /**
     * Line number where this expression/pattern was declared.
     */
    private int _lineNumber = 0;

    /**
     * Reference to the symbol table.
     */
    public SymbolTable _symbolTable;

    public XPathParser(Parser parser) {
        _parser = parser;
        _xsltc = parser.getXSLTC();
        _symbolTable = parser.getSymbolTable();
    }

    public int getLineNumber() {
        return _lineNumber;
    }

    public QName getQNameIgnoreDefaultNs(String name) {
        return _parser.getQNameIgnoreDefaultNs(name);
    }
public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "*[uri]:*" and "*[uri]:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */

public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) {  // "*
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

        return new StepPattern(axis, nodeType, predicates);
    }

    else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();

        return new StepPattern(axis, nodeType, predicates);
    }

    else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*")) ? -1
                ...
: _xsltc.registerNamespacePrefix(name);
    } else {
    final String uri = name.getNamespace();
    final String local = name.getLocalPart();
    final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

    // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
    if (uri != null && (local.equals("*") || local.equals("@*"))) {
        if (predicates == null) {
            predicates = new Vector(2);
        }
        // Priority is set by hand if no other predicates exist
        setPriority = (predicates.size() == 0);
        predicates.add(
            new Predicate(
                new EqualityExpr(Operators.EQ,
                new NamespaceUriCall(namespace_uri),
                new LiteralExpr(uri))));
    }

    if (local.equals("*")) {
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
            : NodeTest.ELEMENT;
    } else if (local.equals("@*")) {
        nodeType = NodeTest.ATTRIBUTE;
    } else {
        nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
            : _xsltc.registerElement(name);
    }

    final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }

    return result;
}
public int findNodeType(int axis, Object test) {
    if (test == null) {  // *
        return (axis == Axis.ATTRIBUTE) ?
            NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }
    else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1
                : _xsltc.registerNamespacePrefix(name);
        }
        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();

            if (local.equals("*")) {
                return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
                    : NodeTest.ELEMENT;
            }
            else if (local.equals("@*")) {
                return NodeTest.ATTRIBUTE;
            }
        }
        return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
            : _xsltc.registerElement(name);
    }
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 * *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.
 * *
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
    }
_lineNumber = lineNumber;
return super.parse();
}

} catch (IllegalCharException e) {
    ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
         lineNumber, e.getMessage());
    _parser.reportError(Constants.FATAL, err);
}
return null;

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
        _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
  return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
  final ParentLocationPath plp = (ParentLocationPath) rlp;
  final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
  return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
            {: RESULT = pattern: :}
            | EXPRESSION Expr:expr
               {: RESULT = expr: :};

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
            {: RESULT = lpp: :}
            | LocationPathPattern:lpp VBAR Pattern:p
               {: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH
            {: RESULT = new AbsolutePathPattern(null); :}
            | SLASH RelativePathPattern:rpp
               {: RESULT = new AbsolutePathPattern(rpp); :}
            | IdKeyPattern:ikp
               {: RESULT = ikp; :}
IdKeyPattern := Id LPAREN Literal:l RPAREN
{: RESULT = new IdPattern(l);
parser.setHasIdCall(true);
:}

KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :}

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :}

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp; :}

StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(sp, rpp); :}

StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :}

StepPattern ::= NodeTestPattern:nt
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, null); :}

NodeTestPattern:nt Predicates:pp
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); :}

ProcessingInstructionPattern:pip
{: RESULT = pip; :}

ProcessingInstructionPattern:pip Predicates:pp
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}
<table>
<thead>
<tr>
<th>ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESULT = parser.createStepPattern(axis.intValue(), nt, null);</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp</td>
</tr>
<tr>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>RESULT = parser.createStepPattern(axis.intValue(), nt, pp);</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip</td>
</tr>
<tr>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>RESULT = pip; // TODO: report error if axis is attribute</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip Predicates:pp</td>
</tr>
<tr>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>// TODO: report error if axis is attribute</td>
</tr>
<tr>
<td>RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
NodeTestPattern ::= NameTestPattern:nt |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = nt; :</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>NODE</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>: RESULT = new Integer(NodeTest.ANODE); :</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>TEXT</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>: RESULT = new Integer(NodeTest.TEXT); :</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>COMMENT</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>: RESULT = new Integer(NodeTest.COMMENT); :</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>PI</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>: RESULT = new Integer(NodeTest.PI); :</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
NameTestPattern ::= STAR |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = null; :</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>QName:qn</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>: RESULT = qn; :</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
ChildOrAttributeAxisSpecifier ::= ATSIGN |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = new Integer(Axis.ATTRIBUTE); :</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>CHILD DCOLON</td>
</tr>
</tbody>
</table>
Predicates ::= Predicate:p
{: 
    Vector temp = new Vector();
    temp.addElement(p);
    RESULT = temp;
    :}  

| Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{: 
    RESULT = new Predicate(e);
    :};

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};

OrExpr ::= AndExpr:ae
{: RESULT = ae; :}

| OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
{: RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee
{: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re
{: RESULT = re; :}

| EqualityExpr:ee EQ RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

| EqualityExpr:ee NE RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
{: RESULT = ae; :}
RelationalExpr:re LT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

RelationalExpr:re GT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

RelationalExpr:re LE AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

RelationalExpr:re GE AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
{: RESULT = me; :}

AdditiveExpr:ae PLUS MultiplicativeExpr:me
{: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :}

AdditiveExpr:ae MINUS MultiplicativeExpr:me
{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
{: RESULT = ue; :}

MultiplicativeExpr:me MULT UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

MultiplicativeExpr:me DIV UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

MultiplicativeExpr:me MOD UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
{: RESULT = ue; :}

MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
{: RESULT = pe; :}

PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
{: RESULT = lp; :}
FilterExpr::fexp
{
  RESULT = fexp;
}

FilterExpr::fexp SLASH RelativeLocationPath::rlp
{
  RESULT = new FilterParentPath(fexp, rlp);
}

FilterExpr::fexp DSLASH RelativeLocationPath::rlp
{

  // Expand '//' into '/descendant-or-self::node()' or
  // into /descendant-or-self::*
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  FilterParentPath fpp = new FilterParentPath(fexp, step);
  fpp = new FilterParentPath(fpp, rlp);
  if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
  }
  RESULT = fpp;
}

LocationPath ::= RelativeLocationPath::rlp
{
  RESULT = rlp;
}

AbsoluteLocationPath::alp
{
  RESULT = alp;
}

RelativeLocationPath ::= Step::step
{
  RESULT = step;
}

RelativeLocationPath::rlp SLASH Step::step
{
  if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot())
  {
    RESULT = step;  // Remove '.' from the middle
  }
  else if (((Step) step).isAbbreviatedDot())
  {
    RESULT = rlp;  // Remove '.' from the end
  }
  else {
    RESULT =
    new ParentLocationPath((RelativeLocationPath) rlp, step);
AbsoluteLocationPath ::= SLASH
{ : RESULT = new AbsoluteLocationPath(); : }

| SLASH RelativeLocationPath:rlp
{ : RESULT = new AbsoluteLocationPath(rlp); : }

| AbbreviatedAbsoluteLocationPath:aalp
{ : RESULT = aalp; :);

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{ :
  final Step right = (Step)step;
  final int axis = right.GetAxis();
  final int type = right.getNodeType();
  final Vector predicates = right.getPredicates();

  if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) { 
    // Compress './child:E' into 'descendant::E' - if possible
    if (predicates == null) { 
      right.setAxis(Axis.DESCENDANT);
      if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) { 
        RESULT = right;
      } }
    else { 
      // Expand './child::E' into './descendant::E'
      RelativeLocationPath left = (RelativeLocationPath)rlp;
      RESULT = new ParentLocationPath(left, right);
    }
  }
  else { 
    // Expand './step' -> 'descendant-or-self::*/*step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) { 
      Step left = new Step(Axis.DESCENDANTORSELF,
        DTM.ELEMENT_NODE, null);
      RESULT = new ParentLocationPath(left, right);
    } }
  }
}
else { 
  // Expand './step' -> 'descendant-or-self::*/*step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step mid = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
  ParentLocationPath ppl = new ParentLocationPath(mid, right);
RESULT = new ParentLocationPath(left, ppl);
}
}
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DOM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
;

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
{
;
    // Expand '//' into '/descendant-or-self::node()/' or
    // into '/descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis())) {
        nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
;

Step ::= NodeTest:ntest
{
    if (ntest instanceof Step) {
        RESULT = (Step)ntest;
    } else {
        RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), parser.findNodePath(Axis.CHILD, ntest), null);
    }
}
null);
}

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<tr>
<th>NodeTest:ntest Predicates:pp</th>
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<tbody>
<tr>
<td>:</td>
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<tr>
<td>if (ntest instanceof Step) {</td>
</tr>
<tr>
<td>Step step = (Step)ntest;</td>
</tr>
<tr>
<td>step.addPredicates(pp);</td>
</tr>
<tr>
<td>RESULT = (Step)ntest;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else {</td>
</tr>
<tr>
<td>RESULT = new Step(Axis.CHILD,</td>
</tr>
<tr>
<td>parser.findNodeType(Axis.CHILD, ntest), pp);</td>
</tr>
<tr>
<td>}</td>
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<th>AxisSpecifier:axis NodeTest:ntest Predicates:pp</th>
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<tr>
<th>AbbreviatedStep:abbrev</th>
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<tbody>
<tr>
<td>:</td>
</tr>
<tr>
<td>RESULT = abbrev; :</td>
</tr>
</tbody>
</table>

AxisSpecifier ::= AxisName:an DCOLON |
| : RESULT = an; : |

| ATSIGN |
| : RESULT = new Integer(Axis.ATTRIBUTE); : |

AxisName ::= ANCESTOR |
| : RESULT = new Integer(Axis.ANCESTOR); : |

| ANCESTORORSELF |
| : RESULT = new Integer(Axis.ANCESTORORSELF); : |

| ATTRIBUTE |
| : RESULT = new Integer(Axis.ATTRIBUTE); : |

| CHILD |
AbbreviatedStep ::= DOT
    { : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : }  
| DDOT
    { : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : }  
FilterExpr ::= PrimaryExpr:primary
    { : RESULT = primary; : }  
| PrimaryExpr:primary Predicates:pp
    { : RESULT = new FilterExpr(primary, pp); : }  
PrimaryExpr ::= VariableReference:vr
    { : RESULT = vr; : }  
| LPAREN Expr:ex RPAREN
    { : RESULT = ex; : }  
| Literal:string
/*
 * If the string appears to have the syntax of a QName, store
 * namespace info in the literal expression. This is used for
 * element-available and function-available functions, among
 * others. Also, the default namespace must be ignored.
 */
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
  : new LiteralExpr(string, namespace);

| INT:num |
| : long value = num.longValue(); |
| : if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) { |
| : RESULT = new RealExpr(value); |
| : } |
| REAL:num |
| : RESULT = new RealExpr(num.doubleValue()); |
| : } |
| FunctionCall:fc |
| : RESULT = fc; |

VariableReference ::= DOLLAR VariableName:varName
| : // An empty qname prefix for a variable or parameter reference
| : // should map to the null namespace and not the default URI.
| : SyntaxTreeNode node = parser.lookupName(varName); |
if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    } else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    } else {
        RESULT = new UnresolvedRef(varName);
    }
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
);

FunctionCall ::= FunctionName:fname LPAREN RPAREN
{
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    } else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
        RESULT = new BooleanExpr(true);
    } else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
        RESULT = new BooleanExpr(false);
    } else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname);
    } else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {

RESULT = new PositionCall(fname);

else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}

else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

:

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
| : |  |
| if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) { |
|    RESULT = new ConcatCall(fname, argl); |
| } |

else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}

else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}

else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}

// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
}

NonemptyArgumentList ::= Argument:arg
{|:
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
|}

| Argument:arg COMMA NonemptyArgumentList:argl
{|: argl.insertElementAt(arg, 0); RESULT = argl; |}

FunctionName ::= QName:fname
{|:
    RESULT = fname;
|}

VariableName ::= QName:vname
{|:
    RESULT = vname;
|}

Argument ::= Expr:ex
{|: RESULT = ex; |}

NodeTest ::= NameTest:nt
{|: RESULT = nt; |}

| NODE
{|: RESULT = new Integer(NodeTest.ANODE); |}

| TEXT
{|: RESULT = new Integer(NodeTest.TEXT); |}

| COMMENT
{|: RESULT = new Integer(NodeTest.COMMENT); |}

| PIPARAM LPAREN Literal:l RPAREN
{|:
    QName name = parser.getQNameIgnoreDefaultNs("name");
    Expression exp = new EqualityExpr(Operators.EQ,
        new NameCall(name),
        new LiteralExpr(l));
    Vector predicates = new Vector();
|}
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:}

| PI
{ : RESULT = new Integer(NodeTest.PI); : }

NameTest ::= STAR
{ : RESULT = null; : }

| QName:qn
{ : RESULT = qn; : }

QName ::= QName:qname
{ : RESULT = parser.getQNameIgnoreDefaultNs(qname); : }

| DIV
{ : RESULT = parser.getQNameIgnoreDefaultNs("div"); : }

| MOD
{ : RESULT = parser.getQNameIgnoreDefaultNs("mod"); : }

| KEY
{ : RESULT = parser.getQNameIgnoreDefaultNs("key"); : }

| ANCESTOR
{ : RESULT = parser.getQNameIgnoreDefaultNs("child"); : }

| ANCESTORORSELF
{ : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); : }

| ATTRIBUTE
{ : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); : }

| CHILD
{ : RESULT = parser.getQNameIgnoreDefaultNs("child"); : }

| DESCENDANT
{ : RESULT = parser.getQNameIgnoreDefaultNs("descendant"); : }

| DESCENDANTORSELF
{ : RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); : }

| FOLLOWING
{ : RESULT = parser.getQNameIgnoreDefaultNs("following"); : }

| FOLLOWINGSIBLING
{ : RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); : }
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/xpath.cup
No license file was found, but licenses were detected in source scan.

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/processor/TransformerFactoryImpl.java
No license file was found, but licenses were detected in source scan.
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*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
No license file was found, but licenses were detected in source scan.

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

/*
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java
No license file was found, but licenses were detected in source scan.

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/
/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%%
%cup
%unicode
%class XPathLexer
%yyeof

%
{
  int last;

  void initialize() {
    last = -1;
  }

  static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '
' || c == '' || c == '' || c == ' ');
  }

  /**
   * If symbol is not followed by `::` or `('), then treat it as a
   * name instead of an axis or function (Jira-1912).
   */


Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }

    // Return symbol if next token is '::' or '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') ||
           (yy_buffer[index] == '(') ?
           newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLSH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GE:
        case sym.GT:
        case sym.INT: // integer
        case sym.FLOAT:
        case sym.STRING:
        case sym.CHAR:
        case sym.QNAME:
    
        return symbol;

    default:    // any operator
        return newSymbol(ss);
    }
}

Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }

    // Return symbol if next token is '::' or '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') ||
           (yy_buffer[index] == '(') ?
           newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLSH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GE:
        case sym.GT:
        case sym.INT: // integer
        case sym.FLOAT:
        case sym.STRING:
        case sym.CHAR:
        case sym.QNAME:
    
        return symbol;

    default:    // any operator
        return newSymbol(ss);
    }
}
case sym.GT:
    case sym.GE:
        return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MUL:
    case sym.SLASH:
    case sym.DSлаSH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
}
return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}

%}
%eofval{
    return newSymbol(sym.EOF);
%eofval

%yylexthrow{
    Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[u0041-u005A|u0061-u007A|u00C0-u00D6|u00D8-u00F6|u00F8-u00FF|u0131-u0134-"u013E|u0141-u0148|u014A|u017E|u0180-u01C3|u01CD|u01F0-u01F4|u01F5|u01FA|u0217-u0250-"u02A8|u02BB|u02C1|u0386|u0388-u038A|u038C|u038E|u03A1|u03A3|u03CE|u03D0-"u03D6|u03DA|u03DC|u03DE|u03E0|u03E2|u03F3|u0401|u040C|u040E|u044F|u0451|u045C|u045E-"u0481|u0490-u04C4|u04C7|u04C8|u04CB|u04CC|u04D0|u04DE|u04F5|u04F8-u04F9|u0531-"u0556|u0559|u0561-"u0586|u05D0|u05EA|u05F0|u05F2|u0621|u063A|u0641|u064A|u0671-u06B7|u06BA-"u06BE|u06CE|u06D0|u06D3|u06D5|u06E5|u06E6|u0905-u0939|u093D|u0958|u0961-u0985-"u098C|u098F|u0990|u0993|u09A8|u09AA-"u09B0|u09B2-u09B6|u09B9-u09DC|u09DD|u09DF-"u09E1|u09F0-u09F1|u0A05|u0A0A|u0A0F|u0A10|u0A13|u0A28|u0A2A|u0A30|u0A32-"u0A33|u0A35|u0A36|u0A39|u0A59|u0A5C|u0A5E|u0A72|u0A74|u0A85-u0A8B|u0A8D|u0A8F-"u0A91|u0A93-"u0AA8|u0AA9|u0AB0|u0AB2-u0AB3|u0AB5|u0AB9|u0ABD|u0AEB|u0AFC|u0B05|u0B0C|u0B0F|u0B10|u0B13-"u0B28|u0B2A|u0B30|u0B32-u0B33|u0B36|u0B39|u0B3D|u0B5C|u0B5D|u0B5F|u0B61|u0B85-"u0B8A|u0B8E|u0B90|u0B92-"u0B95|u0B99|u0B9A|u0B9C|u0B9E|u0B9F|u0BA3-"u0BA4|u0BA8-"u0BAA|u0BAC|u0BBC|u0BC5|u0BC9|u0C0C|u0C0E|u0C10|u0C12-"u0C28|u0C2A|u0C33|u0C35|u0C39|u0C60|u0C61|u0C85|u0C8C|u0C8E|u0C90|u0C92-"u0CA8|u0CAA-"u0CB3|u0CB5-"u0CB9|u0CDE|u0CDE|u0CE|u0D05-u0D0C|u0D0D|u0D0E|u0D10|u0D12-"u0D28|u0D2A-"u0D39|u0D60-"u0D61|u0E01|u0E2E|u0E30|u0E32-"u0E33|u0E40|u0E45|u0E48|u0E49-"u0E88|u0E8A|u0E8D|u0E94|u0E97|u0E99|u0E9F|u0EA1-"u0EA3|u0EA5|u0EA7|u0EAA|u0EAB|u0EAD-"u0EAE|u0EB0|u0EB2-"u0EB3|u0EBD|u0EC0|u0EC4|u0F40|u0F47|u0F49|u0F69|u0A0|u0C5|u0D0-"u10F6|u1000|u1002-"u1003|u1005|u1007|u1009|u1010|u1012-"u1013|u1138|u1100|u1104|u110C|u111E|u1150|u1154-"u1155|u1159|u115F-"u1161|u1163|u1165|u1167|u1169|u116D|u116E|u1172-"u1173|u1175|u119E|u11A8|u11AB-"u11AF|u11B7|u11B8|u11BA|u11BC|u11C2|u11EB|u11F0|u11F9|u1E00-"u1E9B|u1EA0-"u1EF9|u1F00-"u1F15|u1F18-"u1F1D|u1F20-"u1F45|u1F48-"u1F4D|u1F50-"u1F57|u1F59|u1F5B|u1F5D|u1F5F-"u1F7D|u1F80-
"@"    { return newSymbol(sym.ATSIGN); }  
"."    { return newSymbol(sym.DDOT); }     
"?"    { return newSymbol(sym.VBAR); }     
"$"    { return newSymbol(sym.DOLLAR); }   
"//"   { return newSymbol(sym.DSLASH); }   
"="    { return newSymbol(sym.EQ); }       
"!="   { return newSymbol(sym.NE); }       
"<"    { return newSymbol(sym.LT); }       
">"    { return newSymbol(sym.GT); }       
"<="   { return newSymbol(sym.LE); }       
">="   { return newSymbol(sym.GE); }       
"id"   { return disambiguateAxisOrFunction(sym.ID); }  
"key"  { return disambiguateAxisOrFunction(sym.KEY); }  
"text()" { return newSymbol(sym.TEXT); }    
"text"+[ \\
\n]+("" { return newSymbol(sym.TEXT); }    
"node()" { return newSymbol(sym.NODE); }    
"node"+[ \\
\n]+("" { return newSymbol(sym.NODE); }    
"comment()" { return newSymbol(sym.COMMENT); }    
"comment"+[ \\
\n]+("" { return newSymbol(sym.COMMENT); }    
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }    
"processing-instruction"+[ \\
\n]+("" { return newSymbol(sym.PI); }    
"or"   { return disambiguateOperator(sym.OR); }    
"and"  { return disambiguateOperator(sym.AND); }    
"child" { return disambiguateAxisOrFunction(sym.CHILD); }    
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }    
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }    
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }    
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }    
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }    
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }    
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }    
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }    
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }    
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }    
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }    
"self"  { return disambiguateAxisOrFunction(sym.SELF); }    
"["    { return newSymbol(sym.LBRACK); }    
"]"    { return newSymbol(sym.RBRACK); }    
"("    { return newSymbol(sym.LPAREN); }    
")"    { return newSymbol(sym.RPAREN); }    
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }    
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }    
\"[^\\"]*\"    { return newSymbol(sym.Literal, 
    yytext().substring(1, yytext().length() - 1)); }    
\[\^\\]"\"    { return newSymbol(sym.Literal, 
    yytext().substring(1, yytext().length() - 1)); }    
{Digit}+    { return newSymbol(sym.INT, new Long(yytext())); }
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.lex
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 */
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
* @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
* development drop for a release.
*/

```java
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */

public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */

public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
 : (""+MAINTENANCE));
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src

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*/

// Proprietary, built in functions
/** current function string (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java
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*/

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
jar/org/apache/xalan/xsltc/runtime/Hashtable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LangCall.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplateElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTextLiteral.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/RealType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/serializer/NamespaceMappings.java

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jar/org/apache/xalan/xslt/compiler/Template.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_sk.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMLocatorImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorStylesheetElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/PsuedoNames.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformSnapshotImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/Util.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMDOMException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/DeadCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/RoundCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemApplyTemplates.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/StylesheetHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2RTFDTM.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/PrintTraceListener.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializationHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TracerEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/Processor.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FloorCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/FastStringBuffer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM2.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/CustomStringPool.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/DOMWSFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionContext.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TracerEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/Processor.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/FastStringBuffer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM2.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/CustomStringPool.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/DOMWSFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionContext.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TracerEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/Processor.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/or
jar/org/apache/xalan/xslt/ compiler/TransletOutput.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncExtFunctionAvailable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/StylesheetComposed.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/util/ErrorMessages_it.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathNSResolverImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/Util.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ElementAvailableCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/TransletOutput.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathDumper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/VarNameCollector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/processor/ProcessorCharacters.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerGeneral.java
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1.96 hsql-db 2.3.0

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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/util/DatabaseManagerCommon.java
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/**
 * Comprehensive information about the database as a whole.
 * <p>
 * This interface is implemented by driver vendors to let users know the capabilities
 * of a Database Management System (DBMS) in combination with the driver based on
 * JDBC technology ("JDBC driver") that is used with it. Different relational DBMSs often
 * support different features, implement features in different ways, and use different
 * data types. In addition, a driver may implement a feature on top of what the DBMS
 * offers. Information returned by methods in this interface applies to the capabilities
 * of a particular driver and a particular DBMS working together. Note that as used in
 * this documentation, the term "database" is used generically to refer to both the driver
 * and DBMS.
 * <p>
 * A user for this interface is commonly a tool that needs to discover how to deal with
 * the underlying DBMS. This is especially true for applications that are intended to be
 * used with more than one DBMS. For example, a tool might use the method
* `<code>getTypeInfo</code>` to find out what data types can be used in a
* `<code>CREATE TABLE</code>` statement. Or a user might call the method
* `<code>supportsCorrelatedSubqueries</code>` to see if it is possible to use
* a correlated subquery or `<code>supportsBatchUpdates</code>` to see if it is
* possible to use batch updates.

* `<p>`
* Some `<code>DatabaseMetaData</code>` methods return lists of information
* in the form of `<code>ResultSet</code>` objects.
* Regular `<code>ResultSet</code>` methods, such as
* `<code>getString</code>` and `<code>getInt</code>`, can be used
* to retrieve the data from these `<code>ResultSet</code>` objects. If
* a given form of metadata is not available, an empty `<code>ResultSet</code>`
* will be returned. Additional columns beyond the columns defined to be
* returned by the `<code>ResultSet</code>` object for a given method
* can be defined by the JDBC driver vendor and must be accessed
* by their `<B>column label</B>`.

* `<p>`
* Some `<code>DatabaseMetaData</code>` methods take arguments that are
* String patterns. These arguments all have names such as fooPattern.
* Within a pattern String, "%" means match any substring of 0 or more
* characters, and "_" means match any one character. Only metadata
* entries matching the search pattern are returned. If a search pattern
* argument is set to `<code>null</code>`, that argument's criterion will
* be dropped from the search.

* `<p>`
* A method that gets information about a feature that the driver does not
* support will throw an `<code>SQLException</code>`.
* In the case of methods that return a `<code>ResultSet</code>`
* object, either a `<code>ResultSet</code>` object (which may be empty) is
* returned or an `<code>SQLException</code>` is thrown.

* <!-- start release-specific documentation -->
* <div class="ReleaseSpecificDocumentation">
* <h3>HSQLDB-Specific Information:</h3>
* <p>
* <h4>Metadata Table Production</h4>
* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production
* implementation provided in the default build filters metadata based on each
* SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2
* restriction that only users with the DBA role
* ("admin" users in older HSQLDB parlance) could expect trouble-free access to
* all metadata.<p>

* Also starting with HSQLDB 1.7.2, the metadata table production implementation
* classes are loaded dynamically, using a precedence policy to find and load
* the richest producer available at runtime. In the event that no better
* alternative is found, the default minimal (completely restricted) provider
is selected. Under this scheme, it is possible for third party packagers to
create custom distributions targeted at supporting full (design-time),
custom-written (proprietary / micro environment), minimal (production-time)
or completely-restricted (space-constrained | device embedded | real-time |
hostile environment) metadata table production scenarios. To learn more
about this option, interested parties can review the documentation and source
code for the <code>org.hsqldb.dbinfo.DatabaseInformation class</code>. <p>
* Please also note that in addition to the metadata tables produced to
directly support this class, starting with HSQLDB 1.7.2, the default build
* provides many additional tables covering all or most HSQLDB features, such
* as descriptions of the triggers and aliases defined in the database. <p>
* For instance, in the default build, a fairly comprehensive description of
* each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA table
* column is included in the REMARKS column of the { @link #getTables(
* java.lang.String, java.lang.String, java.lang.String, java.lang.String[])
* getTables(...)) and { @link #getColumns(java.lang.String, java.lang.String,
* java.lang.String, java.lang.String) getColumns(...)) results, which derive
* from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS,
* respectively. <p>
* <h4>Schema Metadata</h4>
* The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and
* this fact is reflected in the all subsequent versions of this class.
* <h4>Catalog Metadata</h4>
* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
* is a major theme which is reflected in the provision of the majority of the
* standard-defined full-name INFORMATION_SCHEMA views. <p>
* However, just as CATALOG semantics and handling are still considered to be
* implementation defined by the most recent SQL standard (SQL:2008), so is the
* HSQLDB CATALOG concept still in the process of being defined and refined in
* HSQLDB 2.x. and beyond. <p>
* Previous to HSQLDB 2.x, there were, at various points in time, experimental
* features provided to turn on pseudo catalog (and before that, pseudo-schema)
* reporting in the system tables, using the database properties
* 'hsqldb.catalogs' and 'hsqldb.schemas', respectively. <p>
* However, once the engine fully supported the SQL SCHEMA concept, the
* experimental 'hsqldb.schemas' database property was retired. <p>
* Similarly, starting with HSQLDB 2.x, the 'hsqldb.catalogs' database property
* has been retired and replaced with the convention that, from the perspective
* of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB database instance which consists of a single, default CATALOG named PUBLIC in which each SCHEMA instance of the database resides. The name of this catalog can be changed with the ALTER CATALOG <name> RENAME TO statement.

* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of database objects at the syntactic level, but does not yet support operations such as opening, manipulating or querying against multiple CATALOG catalogs within a single session, not even in a one-at-a-time fashion.<p>

*<h4>Index Metadata</h4>

* It must still be noted that as of the most recent release, HSQLDB continues to ignore the <code>approximate</code> argument of [@link getIndexInfo getIndexInfo()] which continues to be simply indicative of absence of a fully statistics-driven cost-based SQL plan optimization facility. When, such a facility is implemented, corresponding improvements to <code>getIndexInfo</code> will be provided. <p>

*<h4>Notes for developers extending metadata table production</h4>

* Note that in the absence of an ORDER BY clause, queries against the metadata tables that directly support this class are expected to return rows in JDBC contract order. The reason for this is that results typically come back much faster when no "ORDER BY" clause is used. <p>

* As such, when adding, extending or replacing a JDBC database metadata table production routine, developers need to be aware of this fact and either add the contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible, preferably maintain rows in the contract order by correctly coding the primary index definition in the table producer class. <p>

*<hr>

* **JRE 1.1.x Notes:** <p>

* In general, JDBC 2 support requires Java 1.2 and above, and JDBC3 requires Java 1.4 and above. In HSQLDB, support for methods introduced in different versions of JDBC depends on the JDK version used for compiling and building HSQLDB. <p>

* Since 1.7.0, it is possible to build the product so that all JDBC 2 methods can be called while executing under the version 1.1.x Java Runtime Environment<em>TM</em>. However, some of these method calls require <code>int</code> values that are defined only in the JDBC 2 or greater version of the JDBC3 interface. For this reason, when the product is compiled under JDK 1.1.x, these values are defined in [@link JDBCResultSet JDBCResultSet].<p>
In a JRE 1.1.x environment, calling JDBC 2 methods that take or return the
JDBC2-only <code>ResultSet</code> values can be achieved by referring
to them in parameter specifications and return value comparisons,
respectively, as follows: <p>
<pre class="JavaCodeExample">
* JDBCResultSet.FETCH_FORWARD
* JDBCResultSet.TYPE_FORWARD_ONLY
* JDBCResultSet.TYPE_SCROLL_INSENSITIVE
* JDBCResultSet.CONCUR_READ_ONLY
* // etc
* </pre>

However, please note that code written in such a manner will not be
compatible for use with other JDBC 2 drivers, since they expect and use
<code>ResultSet</code>, rather than <code>JDBCResultSet</code>. Also
note, this feature is offered solely as a convenience to developers
who must work under JDK 1.1.x due to operating constraints, yet wish to
use some of the more advanced features available under the JDBC 2
specification.<p>

(fredt@users)<br>
(boucherb@users)

@end release-specific documentation -->

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@author Fred Toussi (fredt@users dot sourceforge.net)
@version 2.0.1
@revised JDK 1.6, HSQLDB 2.0
@revised JDK 1.7, HSQLDB 2.0.1
@see org.hsqldb.dbinfo.DatabaseInformation
@see org.hsqldb.dbinfo.DatabaseInformationMain
@see org.hsqldb.dbinfo.DatabaseInformationFull
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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/rowio/RowOutputBinaryEncode.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/LineReader.java

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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/navigator/RowIterator.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/types/UserTypeModifier.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/test/TestDateTime.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/rowio/RowOutputTextQuoted.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/lib/OrderedLongKeyHashMap.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/server/HsqlSocketFactorySecure.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/test/TestKarl.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/OrderedHashSet.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/server/HsqlSocketFactory.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/test/TestPreparedStatements.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/cmdline/sqltool.flex
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/test/TestPreparedStatements.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/server/HsqlSocketFactory.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/cmdline/sqltool.flex
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/test/TestPreparedStatements.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/server/HsqlSocketFactory.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/cmdline/sqltool.flex
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/test/TestPreparedStatements.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/server/HsqlSocketFactory.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb/cmdline/sqltool.flex
jar/org/hsqldb/server/OdbcPacketOutputStream.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/test/AllSimpleTests.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/persist/TableSpaceManager.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/RowAction.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/BaseList.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/persist/Crypto.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/tar/TarGenerator.java
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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/types/ArrayType.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/util/TransferHelper.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/Trigger.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCSQLXML.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCBlobFile.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCClobFile.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/dbinfo/DatabaseInformation.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/IntValueHashMap.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/StringInputStream.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/RandomAccessInterface.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCStatementBase.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCPreparedStatementBase.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCMetadata.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCSQLOptimizer.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCTime.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCTimeZone.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCVer.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/SchemaObjectSet.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/persist/DataSpaceManagerSimple.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/types/BooleanType.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/ParserDDL.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/SessionContext.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/rowio/RowOutputBinary180.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/LongKeyHashMap.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/persist/HsqlDatabaseProperties.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/rowio/RowOutputBinary.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/jdbc/JDBCClobClient.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/types/ClobType.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/StatementCommand.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/types/ClobInputStream.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/persist/TableSpaceManagerBlocks.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/MultiValueHashMap.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/dbinfo/DITableInfo.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/ClosableCharArrayWriter.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/test/TestDateTimeSimple.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/types/BlobDataID.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/index/NodeAVLDiskLarge.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/util/ConnectionSetting.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/persist/TableSpaceManagerSimple.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/SqlArrayList.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/rowio/RowInputInterface.java
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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/util/SqlServerTransferHelper.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/test/TestTriggers.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/persist/LobStore.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/cmdline/SqlTool.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/tar/ RB.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/FileArchiver.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/persist/TextFileSettings.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/types/BinaryData.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/DoubleIntIndex.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/util/HelperFactory.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/lib/ReadWriteLockDummy.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/test/TestJDBCSavepoints.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/server/HsqlServerFactory.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/server/OracleTransferHelper.java
* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/test/TestLobs.java
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/* These are commands which may contain nested commands and/or which
 * require the closing semicolon to sent to the DB engine.
 * The BEGIN and DECLARE needed for PL/SQL probably do not need to
 * terminate the line, as we have it specified here, but I'd rather not be
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* /opt/cola/permits/1136700099_1613864547.75/0/hsqldb-2-3-0-sources-3-jar/org/hsqldb/persist/RAStrorageWrapper.java
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\q to Quit.
\? lists Special Commands.
:? lists Edit-Buffer/History commands.
*?  lists PL commands.
//? displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with '\' and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with '\:' and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with '/*' and end when you hit ENTER.
MACRO executions and definitions begin with '/' and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted ' ; ' (which executes the
statement), or a blank line (which moves the statement into the edit buffer
without executing).
After turning on variable expansion with command "*" (or any other PL
command), PL variables may be used in most commands like so:  *{PLVARNAME}.
Be aware when using regular expressions on commands, that the regex.s
operate only on the command text after the * or \ prefix, if any.
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*
* @return the underlying sessionProxy for this connection
*/

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* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/Document.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/Option.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/LineType.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/Token.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/Parser.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/Line.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/Preprocessor.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/Defines.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/Tokenizer.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/BasicResolver.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/PreprocessorException.java

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/* These are commands which may contain nested commands and/or which
 * require the closing semicolon to send to the DB engine.
 * The BEGIN and DECLARE needed for PL/SQL probably do not need to
 * terminate the line, as we have it specified here, but I'd rather not be
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?q to Quit.
?q lists Special Commands.
:? lists Edit-Buffer/History commands.
*? lists PL commands.
/? displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with \\ and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with ':' and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with "*" and end when you hit ENTER.
MACRO executions and definitions begin with '/' and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted ':' (which executes the statement), or a blank line (which moves the statement into the edit buffer without executing).
After turning on variable expansion with command "*" (or any other PL command), PL variables may be used in most commands like so: *{PLVARNAME}.
Be aware when using regular expressions on commands, that the regex.s operate only on the command text after the * or \ prefix, if any.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/cmdline/sqltool.flex
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/cmdline/sqltool/SqlFileScanner.java

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* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/Transfer.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/Grid.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/Like.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/CodeSwitcher.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/index/IndexAVLMemory.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/index/NodeAVLDisk.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/index/NodeAVL.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/index/AVL.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/index/Order.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/DatabaseManagerCommon.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/StringConverter.java

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* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/ExpressionAggregate.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/TransferResultSet.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/navigator/RowSetNavigatorDataTable.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/Collation.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/HsqlException.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/server/WebServerConnection.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/trigger/TriggerDefSQL.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/session/SessionManager.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/InputStreamInterface.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/statement/StatementInsert.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/test/TestTextTable.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/test/TriggerClass.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/rowio/RowOutputTextQuoted.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/IntValueHashMap.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/OrderedLongHashSet.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/tar/TarFileOutputStream.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/CSVWriter.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/SimpleLog.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/schema/SchemaManager.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/auth/HsqldbSlaveAuthBean.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/DTIType.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/Iterator.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/function/FunctionCustom.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/tar/TarFileOutputStream.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/statement/StatementManager.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/RowAVLDiskData.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/test/TestJDBCGeneratedColumns.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/Cache.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/Charset.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/CountUpDownLatch.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/dbinfo/DatabaseInformationMain.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/navigator/RangeIterator.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/ReaderInputStream.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/DatabaseManager.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/IntervalSecondData.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/ExpressionAccessor.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/ArrayType.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/ColumnSchema.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/SqlServerTransferHelper.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/TextFileReader16.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/BinaryUUIDType.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/TypeInvariants.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/Server.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/Trigger.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/RAFileHybrid.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/BitType.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/rowio/RowInputInterface.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/BitMapCachedObject.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/jdbc/JDBCCommonDataSource.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/test/TestUpdatableResults.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources.jar/org/hsqldb/lib/BaseList.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources.jar/org/hsqldb/types/BlobInputStream.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources.jar/org/hsqldb/util/GridSwing.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources.jar/org/hsqldb/persist/DataFileDefrag.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources.jar/org/hsqldb/DatabaseType.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources.jar/org/hsqldb/StatementTypes.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources.jar/org/hsqldb/lib/tar/TarHeaderField.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources.jar/org/hsqldb/lib/FileUtil.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources.jar/org/hsqldb/lib/tar/PIFData.java
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* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources.jar/org/hsqldb/TableWorks.java
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   */
Comprehensive information about the database as a whole.

This interface is implemented by driver vendors to let users know the capabilities of a Database Management System (DBMS) in combination with the driver based on JDBC technology ("JDBC driver") that is used with it. Different relational DBMSs often support different features, implement features in different ways, and use different data types. In addition, a driver may implement a feature on top of what the DBMS offers. Information returned by methods in this interface applies to the capabilities of a particular driver and a particular DBMS working together. Note that as used in this documentation, the term "database" is used generically to refer to both the driver and DBMS.

A user for this interface is commonly a tool that needs to discover how to deal with the underlying DBMS. This is especially true for applications that are intended to be used with more than one DBMS. For example, a tool might use the method <code>getTypeInfo</code> to find out what data types can be used in a <code>CREATE TABLE</code> statement. Or a user might call the method <code>supportsCorrelatedSubqueries</code> to see if it is possible to use a correlated subquery or <code>supportsBatchUpdates</code> to see if it is possible to use batch updates.

Some <code>DatabaseMetaData</code> methods return lists of information in the form of <code>ResultSet</code> objects. Regular <code>ResultSet</code> methods, such as <code>getString</code> and <code>getInt</code>, can be used to retrieve the data from these <code>ResultSet</code> objects. If a given form of metadata is not available, an empty <code>ResultSet</code> will be returned. Additional columns beyond the columns defined to be returned by the <code>ResultSet</code> object for a given method can be defined by the JDBC driver vendor and must be accessed by their <B>column label</B>.

Some <code>DatabaseMetaData</code> methods take arguments that are String patterns. These arguments all have names such as fooPattern. Within a pattern String, "%" means match any substring of 0 or more characters, and "_" means match any one character. Only metadata entries matching the search pattern are returned. If a search pattern argument is set to <code>null</code>, that argument's criterion will be dropped from the search.

A method that gets information about a feature that the driver does not support will throw an <code>SQLException</code>. In the case of methods that return a <code>ResultSet</code> object, either a <code>ResultSet</code> object (which may be empty) is
* returned or an &lt;code&gt;SQLException&lt;/code&gt; is thrown.
*
* &lt;!-- start release-specific documentation --&gt;
* &lt;div class="ReleaseSpecificDocumentation"&gt;
* &lt;h3&gt;HSQLDB-Specific Information:&lt;/h3&gt;
*
* &lt;h4&gt;Metadata Table Production&lt;/h4&gt;
*
* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production
* implementation provided in the default build filters metadata based on each
* SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2
* restriction that only users with the DBA role
* ('admin' users in older HSQLDB parlance) could expect trouble-free access to
* all metadata.&lt;p&gt;
*
* Also starting with HSQLDB 1.7.2, the metadata table production implementation
* classes are loaded dynamically, using a precedence policy to find and load
* the richest producer available at runtime. In the event that no better
* alternative is found, the default minimal (completely restricted) provider
* is selected. Under this scheme, it is possible for third party packagers to
* create custom distributions targeted at supporting full (design-time),
* custom-written (proprietary / micro environment), minimal (production-time)
* or completely-restricted (space-constrained | device embedded | real-time |
* hostile environment) metadata table production scenarios. To learn more
* about this option, interested parties can review the documentation and source
* code for the &lt;code&gt;org.hsqldb.dbinfo.DatabaseInformation class&lt;/code&gt;.&lt;p&gt;
*
* Please also note that in addition to the metadata tables produced to
* directly support this class, starting with HSQLDB 1.7.2, the default build
* provides many additional tables covering all or most HSQLDB features, such
* as descriptions of the triggers and aliases defined in the database. &lt;p&gt;
*
* For instance, in the default build, a fairly comprehensive description of
* each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA table
* column is included in the REMARKS column of the [&lt;link #getTables(
* java.lang.String, java.lang.String, java.lang.String, java.lang.String[])&gt;
* getTables(...)) and [&lt;link #getColumns(java.lang.String, java.lang.String,
* java.lang.String, java.lang.String) getColumn(...)] results, which derive
* from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS,
* respectively.&lt;p&gt;
*
* Since HSQLDB 2.0 the INFORMATION_SCHEMA views have been vastly expanded
* in compliance with the SQL:2011 Standard and report the properties of all
* database objects.&lt;p&gt;
*
* &lt;h4&gt;Schema Metadata&lt;/h4&gt;
*
* The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and
* this fact is reflected in the all subsequent versions of this class.

* <h4>Catalog Metadata</h4>

* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
* is a major theme which is reflected in the provision of the majority of the
* standard-defined full-name INFORMATION_SCHEMA views. <p>

* However, just as CATALOG semantics and handling are still considered to be
* implementation defined by the most recent SQL standard (SQL:2008), so is the
* HSQLDB CATALOG concept still in the process of being defined and refined in
* HSQLDB 2.x. and beyond.<p>

* Previous to HSQLDB 2.x, there were, at various points in time, experimental
* features provided to turn on pseudo catalog (and before that, pseudo-schema)
* reporting in the system tables, using the database properties
* 'hsqldb.catalogs' and 'hsqldb.schemas', respectively.<p>

* However, once the engine fully supported the SQL SCHEMA concept, the
* experimental 'hsqldb.schemas' * database property was retired. <p>

* Similarly, starting with HSQLDB 2.x, the 'hsqldb.catalogs' database property
* has been retired and replaced with the convention that, from the perspective
* of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB
* database instance which consists of a single, default CATALOG
* named PUBLIC in which each SCHEMA instance of the database resides. The name of
* this catalog can be changed with the ALTER CATALOG &lt;name&gt; RENAME TO statement.
* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of
* database objects at the syntactic level, but does not yet support operations
* such as opening, manipulating or querying against multiple database
* catalogs within a single session, not even in a one-at-a-time fashion.

* <h4>Index Metadata</h4>

* It must still be noted that as of the most recent release, HSQLDB continues
* to ignore the <code>approximate</code> argument of {@link #getIndexInfo
* getIndexInfo()} as no data is returned for CARDINALITY and PAGES coloumns.

* <h4>Notes for developers extending metadata table production</h4>

* Note that in the absence of an ORDER BY clause, queries against the metadata
* tables that directly support this class are expected to return rows in JDBC
* contract order. The reason for this is that results typically come
* back much faster when no &quot;ORDER BY&quot; clause is used. <p>

* As such, when adding, extending or replacing a JDBC database metadata table
* production routine, developers need to be aware of this fact and either add the
* contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible,
* preferably maintain rows in the contract order by correctly coding the
* primary index definition in the table producer class.
*
* <hr>
*
* (fredt@users)<br>
* (campbell-burnet@users)
* </div>
* <!-- end release-specific documentation -->
*
* @author Campbell Burnet (campbell-burnet@users dot sourceforge.net)
* @author Fred Toussi (fredt@users dot sourceforge.net)
* @version 2.5.0
* @since HSQLDB 1.9.0
* @see org.hsqldb.dbinfo.DatabaseInformation
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/jdbc/JDBCDatabaseMetaData.java

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* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/SegmentPool.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/Segment.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/jvmMain/okio/Sink.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/jvmMain/okio/Buffer.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/jvmMain/okio/RealBufferedSource.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/jvmMain/okio/AsyncTimeout.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/jvmMain/okio/JvmOkio.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/jvmMain/okio/RealBufferedSink.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/jvmMain/okio/DeflaterSink.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/jvmMain/okio/ForwardingSource.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/jvmMain/okio/Source.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/jvmMain/okio/RealBufferedSink.kt
*/
jar/jvmMain/okio/InflaterSource.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-
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* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-
jar/jvmMain/okio/ForwardingSink.kt

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* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/internal/RealBufferedSink.kt
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* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/Timeout.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/BufferedSink.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/Buffer.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/BufferedSource.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/RealBufferedSink.kt

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1.114 jctools-core 3.0.0
1.114.1 Available under license:
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</scm>

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</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
<developer>
<url>https://github.com/kay</url>
</developer>
<developer>
<url>https://github.com/franz1981</url>
</developer>
</developers>

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<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>
<hamcrest.version>1.3</hamcrest.version>
junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

Found in path(s):
* /opt/cola/permits/1177956791_1625584358.42/0/jctools-core-3-0-0-5-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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Manifest-Version: 1.0
Bnd-LastModified: 1578049665284
1.115 spring-boot-starter-websocket

2.2.2.RELEASE

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1.116 javax-websocket-server-impl

9.3.9.v20160517

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1.117 netty-transport 4.1.43.Final

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jar/io/netty/bootstrap/Bootstrap.java
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* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/DefaultChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/socket/nio/ChannelInputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/ServerChannel.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/DefaultChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/ChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/ChannelInboundHandler.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/local/LocalServerChannel.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/ChannelPromiseAggregator.java
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jar/io/netty/channel/local/LocalAddress.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
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jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/pool/ChannelHealthChecker.java
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* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java

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* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its [@link ChannelPipeline].
 *
 * <h3>Sub-types</h3>
 *
 * [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 *
 *<ul>
 *  <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
 *  <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
 *<ul>
 *  <p>
 *  <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 *
 *<ul>
 *  <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
 *  <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
 *  <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
 *<ul>
 *  <p>
 *  <p>
 * For more information, please refer to the documentation of each subtype.
 *
 *  */
The context object

A `ChannelHandler` is provided with a `ChannelHandlerContext` object. A `ChannelHandler` is supposed to interact with the `ChannelPipeline` it belongs to via a context object. Using the context object, the `ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `AttributeKey`s) which is specific to the handler.

State management

A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        // Create a new handler instance per channel.
        // See {ChannelInitializer#initChannel(Channel)}.
        public class DataServerInitializer extends ChannelInitializer&Channel) {
            @Override
            public void initChannel(Channel channel) {
                ...
            }
        }
    }
```
* channel.pipeline().addLast("handler", new DataServerHandler());
* }
* }
* }
* </pre>
* 
* <h4>Using {@link AttributeKey}s</h4>
* 
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* 
* public interface Message {
*   // your methods here
* }
* 
* {@code @Sharable}
* public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
*   private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");
*   
*   {@code @Override}
*   public void channelRead(ChannelHandlerContext ctx, Message message) {
*     Attribute<Boolean> attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) o);
*       attr.set(true);
*     } else (message instanceof GetDataMessage) {
*       if (Boolean.TRUE.equals(attr.get())) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*       } else {
*         fail();
*       }
*     }
*   }
*   ...}
* }
* </pre>
* Now that the state of the handler is attached to the ChannelHandlerContext, you can add the
* same handler instance to different pipelines:
* 
* public class DataServerInitializer extends ChannelInitializer<Channel> {
*   private static final DataServerHandler SHARED = new DataServerHandler();
*   
*   {@code @Override}
*   public void initChannel(Channel channel) {
*     channel.pipeline().addLast("header", new DataServerHandler());
*     channel.pipeline().addLast("handler", new DataServerHandler());
*   }
* }

<pre>* channel.pipeline().addLast("handler", <b>SHARED</b>);
* }</pre>

* } .
* } </pre>

* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the [@code @Sharable] annotation.
* <p>
* If a [@link ChannelHandler] is annotated with the [@code @Sharable]
* annotation, it means you can create an instance of the handler just once and
* add it to one or more [@link ChannelPipeline]s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* 
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the [@link ChannelHandler], and
* [@link ChannelPipeline] to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
* /

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* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/DefaultChannelId.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/group/ChannelMatchers.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/ChannelId.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/ws_local/PERMITS_SQL/1063377421_1592971888.81/0/netty-transport-4-1-43-final-sources-1-jar/io/netty/channel/ChannelProgressiveFutureListener.java
1.118 regexp 2.7.2
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* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RE.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/recompile.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RESyntaxException.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REProgram.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REDebugCompiler.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/REUtil.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RETest.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/StringCharacterIterator.java

1.119 elasticsearch-cli 6.8.7
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1.120 wildfly-elytron-sasl-scram 1.10.3.Final

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  jar/org/wildfly/security/sasl/scram/ScramSaslServerFactory.java
* /opt/cola/permits/1150251282_1627682095.55/0/wildfly-elytron-sasl-scram-1-10-3-final-sources-
  jar/org/wildfly/security/sasl/scram/ScramSaslClient.java
* /opt/cola/permits/1150251282_1627682095.55/0/wildfly-elytron-sasl-scram-1-10-3-final-sources-
  jar/org/wildfly/security/sasl/scram/ScramSaslClientFactory.java
* /opt/cola/permits/1150251282_1627682095.55/0/wildfly-elytron-sasl-scram-1-10-3-final-sources-
  jar/org/wildfly/security/sasl/scram/ScramUtil.java
* /opt/cola/permits/1150251282_1627682095.55/0/wildfly-elytron-sasl-scram-1-10-3-final-sources-
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1.121 hibernate-validator 6.0.18.Final
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/xml/mapping/ContainerElementTypeConfigurationBuilder.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadata/AggregatedConstraintValidator.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/cfg/context/ConstructorTarget.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/xml/mapping/ClassLoadingHelper.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/ModCheckValidator.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/resolver/CachingTraversableResolverForSingleValidation.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/cfg/defs/CurrencyDef.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/resolver/JPATraversableResolver.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/time/DurationMinValidator.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/valueextraction/ReadOnlyListPropertyValueExtractor.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForCollection.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/valueextraction/OptionalIntValueExtractor.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/valueextraction/ConstraintDefinitionContext.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MinValidatorForFloat.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/DecimalMaxValidatorForLong.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForBigDecimal.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForBigDecimal.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMinValidatorForCharSequence.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMinValidatorForCharSequence.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/NullValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/NotnullValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/NotnullValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/NotnullValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/NotnullValidator.java

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/**
* 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>
* </pre>
* {[@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/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

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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/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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1.122 libxcomposite 0.4.4-4.1.el7
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* /opt/cola/permits/1150250145_1627682074.88/0/wildfly-elytron-base-1-10-3-final-sources-jar/org/wildfly/security/WildFlyElytronProvider.java
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jar/org/wildfly/security/WildFlyElytronDigestProvider.java
* /opt/cola/permits/1150250145_1627682074.88/0/wildfly-elytron-base-1-10-3-final-sources-
jar/org/wildfly/security/WildFlyElytronHttpPostProvider.java
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* /opt/cola/permits/1150250145_1627682074.88/0/wildfly-elytron-base-1-10-3-final-sources-jar/org/wildfly/security/OneTimeSecurityFactory.java
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* /opt/cola/permits/1150250145_1627682074.88/0/wildfly-elytron-base-1-10-3-final-sources-jar/org/wildfly/security/ElytronMessages.java
* /opt/cola/permits/1150250145_1627682074.88/0/wildfly-elytron-base-1-10-3-final-sources-jar/org/wildfly/security/FailedSecurityFactory.java
* /opt/cola/permits/1150250145_1627682074.88/0/wildfly-elytron-base-1-10-3-final-sources-jar/org/wildfly/security/ParametricPrivilegedAction.java
* /opt/cola/permits/1150250145_1627682074.88/0/wildfly-elytron-base-1-10-3-final-sources-jar/org/wildfly/security/NullSecurityFactory.java
* /opt/cola/permits/1150250145_1627682074.88/0/wildfly-elytron-base-1-10-3-final-sources-jar/
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1.124 fipscheck 1.4.1 6.el7
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@example
@var{one line to give the program's name and a brief idea of what it does.}

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Also add information on how to contact you by electronic and paper mail.

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@end smallexample
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble
========

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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.

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

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<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

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jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
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* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeaders.java
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jar/io/netty/handler/codec/compression/Lz4XXHash32.java
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* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-jar/io/netty/handler/codec/compression/PrematureChannelClosureException.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-jar/io/netty/handler/codec/MessageToMessageCodec.java
A decoder that splits the received \{@link ByteBuf\}s dynamically by the
value of the length field in the message. It is particularly useful when you
declare a binary message which has an integer header field that represents the
length of the message body or the whole message.

A decoder that splits the received \{@link ByteBuf\}s dynamically by the
value of the length field in the message. It is particularly useful when you
declare a binary message which has an integer header field that represents the
length of the message body or the whole message.

The value of the length field in this example is \texttt{12 (0x0C)} which
represents the length of "HELLO, WORLD". By default, the decoder assumes
that the length field represents the number of the bytes that follows the
length field. Therefore, it can be decoded with the simplistic parameter
combination.

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*/
* <pre>
* | Length | Actual Content |       | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | ----> | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
* +--------+----------------+
* </pre>

<h3>2 bytes length field at offset 0, strip header</h3>

* Because we can get the length of the content by calling
* { @link ByteBuf#readableBytes() }, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = <b>2</b> (= the length of the Length field)
* </pre>

<h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment   = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
* </pre>
<pre>* BEFORE DECODE (14 bytes)           AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
* </pre>

* BEFORE DECODE (17 bytes)           AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
| 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes)           AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
* </pre>
This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the \texttt{lengthFieldOffset} and the extra header affects the \texttt{lengthAdjustment}. We also specified a non-zero \texttt{initialBytesToStrip} to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify \texttt{0} for \texttt{initialBytesToStrip}.

\begin{verbatim}
  lengthFieldOffset   = 1 (= the length of HDR1)
  lengthFieldLength   = 2
  <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
  <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

  BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  +--------------------+------------------------+---------------------+
  | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  +--------------------+------------------------+---------------------+
  | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  +--------------------+------------------------+---------------------+
\end{verbatim}

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into \texttt{lengthAdjustment}. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

\begin{verbatim}
  lengthFieldOffset   = 1
  lengthFieldLength   = 2
  <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
  <b>initialBytesToStrip</b> = <b>3</b>

  BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  +--------------------+------------------------+---------------------+
  | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  +--------------------+------------------------+---------------------+
  | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  +--------------------+------------------------+---------------------+
\end{verbatim}

@see LengthFieldPrepender
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
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* /opt/cola/permits/110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2Constants.java
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  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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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

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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/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.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

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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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1.135 sisu-inject-bean 1.4.2

1.136 maven-core 2.0.6
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*
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
*/

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdinput.c
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jis2int.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimmmxint.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int.asm
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*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

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* This file contains Huffman entropy encoding routines.
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
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* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdld/libjpeg-turbo-1.2.90/jdapistd.c
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*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctfst.c
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*
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*
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdct.h
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJLoader.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg-jni.c

No license file was found, but licenses were detected in source scan.

/*
 * jidctred.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 *
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
 * algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
 * with an 8-to-4 step that produces the four averages of two adjacent outputs
 * (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
 */
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.

* 1x1 is trivial: just take the DC coefficient divided by 8.

* See jidctint.c for additional comments.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctred.c
No license file was found, but licenses were detected in source scan.

/*
 * jdsample.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmerge.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* \[ R = Y + K1 \times Cr \]
* \[ G = Y + K2 \times Cb + K3 \times Cr \]
* \[ B = Y + K4 \times Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
/*/ 

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */
Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcprepct.c
No license file was found, but licenses were detected in source scan.

/ *
* jcprepct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

/ *
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jparams.c for
* parameter-setup helper routines, jomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapimin.c
/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 */
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.

/*
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.c
No license file was found, but licenses were detected in source scan.

/*
* jddctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jQuery JavaScript Library v1.3.2
* http://jquery.com/
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/
/*
* Sizzle CSS Selector Engine - v0.9.3
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.h
No license file was found, but licenses were detected in source scan.

/*
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
* 
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
* 
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/

/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdcolmap.c

No license file was found, but licenses were detected in source scan.

/ *
* jcoefct.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcoefct.c

No license file was found, but licenses were detected in source scan.

/ *
* jcomapi.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface routines that are used for both
* compression and decompression.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcomapi.c

No license file was found, but licenses were detected in source scan.
/*
 * djpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 *djpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 *djpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jmorecfg.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcarith.c

No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications.  As they stand, they assume input from
 * an ordinary stdio stream.  They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */

/* Portions of this code are based on the PBMPPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 */
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
/*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemsys.h
No license file was found, but licenses were detected in source scan.

/
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that no backing-store files are needed: all required space can be obtained from malloc(). This is very portable in the sense that it'll compile on almost anything, but you'd better have lots of main memory (or virtual memory) if you want to process big images. Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 */
Two different command line styles are permitted, depending on the compile-time switch TWO_FILE_COMMANDLINE:

cjpeg [options] inputfile outputfile
cjpeg [options] [inputfile]

In the second style, output is always to standard output, which you'd normally redirect to a file or pipe to some other program. Input is either from a named file or from standard input (typically redirected).

The second style is convenient on Unix but is unhelpful on systems that don't support pipes. Also, you MUST use the first style if your system doesn't do binary I/O to stdin/stdout.

To simplify script writing, the ".outfile" switch is provided. The syntax

cjpeg [options] -outfile outputfile inputfile

works regardless of which command line style is used.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cjpeg.c

No license file was found, but licenses were detected in source scan.

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reasons for developing this free software was to help force convergence on

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README

No license file was found, but licenses were detected in source scan.

jsimd.h

* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*
Found in path(s):

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage.  If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column.  Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/
* jutils.c
* /
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

/
* jdhuff.h
* /
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains declarations for Huffman entropy decoding routines
* that are shared between the sequential decoder (jdhuff.c) and the
* progressive decoder (jdphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.h
No license file was found, but licenses were detected in source scan.

/
* jdcolor.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
  * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
  * Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains output colorspace conversion routines.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library.

We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the
compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)
Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
  [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.

The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to
have special cases at the right and bottom edges. Therefore the interface
buffer is always an integral number of blocks wide and high, and we expect
compression preprocessing to pad the source data properly. Padding will occur
only to the next block (8-sample) boundary. In an interleaved-scan situation,
additional dummy blocks may be used to fill out MCUs, but the MCU assembly and
disassembly logic will create or discard these blocks internally. (This is
advantageous for speed reasons, since we avoid DCTing the dummy blocks.
It also permits a small reduction in file size, because the compressor can
choose dummy block contents so as to minimize their size in compressed form.
Finally, it makes the interface buffer specification independent of whether
the file is actually interleaved or not.) Applications that wish to deal
directly with the downsampled data must provide similar buffering and padding
for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing
steps, many of which have several possible behaviors. To avoid cluttering the
code with lots of switch statements, we use a simple form of object-style
programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented
as two separate modules that present the same external interface; at runtime,
the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C.
The basic tool is a function pointer. An "object" is just a struct
containing one or more function pointer fields, each of which corresponds to
a method name in real object-oriented languages. During initialization we
fill in the function pointers with references to whichever module we have
determined we need to use in this run. Then invocation of the module is done
by indirecting through a function pointer; on most machines this is no more
expensive than a switch statement, which would be the only other way of
making the required run-time choice. The really significant benefit, of
course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different
implementations of the same kind of object. We do this by making all the
module-specific object structs be separately allocated entities, which will
be accessed via pointers in the master compression or decompression struct.
The "public" fields or methods for a given kind of object are specified by
a commonly known struct. But a module's initialization code can allocate
a larger struct that contains the common struct as its first member, plus
additional private fields. With appropriate pointer casting, the module's
internal functions can access these private fields. (For a simple example,
see jdatadst.c, which implements the external interface specified by struct
jpeg_destination_mgr, but adds extra fields.)
(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than
one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data
            |            |            |
            ------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
   |-- Preprocessing controller --|
      |   |-- Downsampling
```
Main controller --|
    |                |-- Forward DCT, quantize
    |-- Coefficient controller --|
          |                        |-- Entropy encoding

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now
emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.
### Decompression object structure

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
    |-- Coefficient controller -->
    |   |-- Dequantize, Inverse DCT
Main controller -->
    |   |-- Upsampling
    |-- Postprocessing controller -->|-- Colorspace conversion
    |   |-- Color quantization
    |   |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* **Main controller**: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* **Coefficient controller**: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* **Entropy decoding**: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* **Dequantization and inverse DCT**: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* **Postprocessing controller**: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this
controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control; jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.
* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.
The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE

typedef JSAMPLE *JSAMPROW; ptr to a row of samples

typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows

typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.

* Indexing doesn't require multiplication; this is a performance win on many machines.

* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.

* The rows forming a component array may be allocated at different times
without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don’t use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don’t need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems.
(This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as “far” pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment).

We use a #define symbol FAR, which expands to the “far” keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include “progress counters” which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec’s internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the
permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (i.e., the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or
decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.
In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.
Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.
*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.
*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).
We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.

/ *
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcparam.c
No license file was found, but licenses were detected in source scan.

/ *
 * jquant1.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrjpgcom.c

No license file was found, but licenses were detected in source scan.

/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcinit.c

No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations.  However, it may not give the same results on all
 * machines because of differences in roundoff behavior.  Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column.  Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT.  Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README).  The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs.  These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries.  The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values.  However, that problem does not arise if
 * we use floating point arithmetic.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/ *
* jdmaster.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90/jdmaster.c
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/ *
* jquant2.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
* *
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90/jquant2.c
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/*
 * jdhuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.540/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.c

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/License.rtf

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; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
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; warranty. In no event will the authors be held liable for any damages
; arising from the use of this software.
;
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;   in a product, an acknowledgment in the product documentation would be
;   appreciated but is not required.
; 2. Altered source versions must be plainly marked as such, and must not be
;   misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]
System-dependent configurations

%ifdef WIN32; ~~~(nasm -fwin32 -DWIN32 ...)-~~~
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --

%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64; ~~~(nasm -fwin64 -DWIN64 ...)-~~~
; * Microsoft Visual C++

; -- segment definition --

%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name

%elifdef OBJ32; ~~~(nasm -fobj -DOBJ32 ...)-~~~
; * Borland C++ (Win32)

; -- segment definition --

%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; ~~~(nasm -felf64 -DELF ...)-~~~
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits
; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT    .text   progbits align=16
%define SEG_CONST   .rodata progbits align=16
%else
%define SEG_TEXT    .text   progbits alloc exec   nowrite align=16
%define SEG_CONST   .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  _GLOBAL_OFFSET_TABLE_ ; ELF supports PIC
%define EXTN(name)  name
%elifdef AOUT
; ----(nasm -faout/aout -DAOUT ...)----
; * Older Linux using a.out format  (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format  (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT    .text
%define SEG_CONST   .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  __GLOBAL_OFFSET_TABLE_; BSD-style a.out supports PIC
%elifdef MACHO
; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT    .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST   .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL  _MACHO_PIC_; Mach-O style code-relative addressing

%else
; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT    .text
%define SEG_CONST   .data
%endif; ----------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
; Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD    ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%endif
%define INT                     dword           ; signed integer type
%define SIZEOF_INT              SIZEOF_DWORD    ; sizeof(INT)
%define INT_BIT                 DWORD_BIT       ; sizeof(INT)*BYTE_BIT

%define FP32                    dword           ; IEEE754 single
%define SIZEOF_FP32             SIZEOF_DWORD    ; sizeof(FP32)
%define FP32_BIT                DWORD_BIT       ; sizeof(FP32)*BYTE_BIT

%define MMWORD                  qword           ; int64  (MMX register)
%define SIZEOF_MMWORD           SIZEOF_QWORD    ; sizeof(MMWORD)
%define MMWORD_BIT              QWORD_BIT       ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD                ; int128 (SSE register)
%define SIZEOF_XMMWORD         SIZEOF_QWORD    ; sizeof(XMMWORD)
%define XMMWORD_BIT            QWORD_BIT       ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE             1               ; sizeof(BYTE)
%define SIZEOF_WORD             2               ; sizeof(WORD)
%define SIZEOF_DWORD            4               ; sizeof(DWORD)
%define SIZEOF_QWORD            8               ; sizeof(QWORD)
%define SIZEOF_QWORD            8               ; sizeof(QWORD)
%define SIZEOF_QWORD            16              ; sizeof(QWORD)
%define BYTE_BIT                8               ; CHAR_BIT in C
%define WORD_BIT                16              ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT  32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT  64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT  128 ; sizeof(OWORD)*BYTE_BIT

; --------------------------------------------------------------------------
; External Symbol Name
;
%ifndef EXTN
%define EXTN(name)   _ %+ name		; foo() -> _foo
%endif

; --------------------------------------------------------------------------
; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT 1
; NOTE: this macro destroys ecx register.
call %geteip
add ecx, byte (%ref - $)
jmpshort %adjust
%geteip:
mov ecx, POINTER [esp]
ret
%adjust:
pushebp
xor ebp, ebp ; ebp = 0
%ifidni %1,ebx; (%l == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C ; 8D,9C
jmpnear const_base; E9,(const_base-%ref)
%ref:
%else ; (%l != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C 8D,8C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:mov%1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ ---------------
%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
extern%GOT_SYMBOL
call%geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%done
%geteip:
mov%1, POINTER [esp]
ret
%%%done:
%endmacro
%endif; GOT_SYMBOL == _MACHO_PIC_ ----------------

%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro

%else; !PIC ---------------------------------
%define GOTOFF(got,sym) (sym) wrt ..gotoff

%imacro get_GOT1
extern%GOT_SYMBOL
call%geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%done
%geteip:
mov%1, POINTER [esp]
ret
%%%done:
%endmacro
%endif; GOT_SYMBOL != _MACHO_PIC_ ---------------

%define GOTOFF(got,sym) (sym)

%imacro get_GOT1
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro
%endif; PIC -----------------------------------------

; Align the next instruction on {2,4,8,16,...}-byte boundary.
; ".balign n,,m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%bx:times MSKLE(FILLB(%bx,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) /
   db 0x90 ; nop
times MSKLE(FILLB(%bx,%1),%2) & FILLB($,%1)/9 /
   db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%bx,%1),%2) & FILLB($,%1)/7 /
   db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%bx,%1),%2) & FILLB($,%1)/6 /
   db 0x8D,0xAD,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%bx,%1),%2) & FILLB($,%1)/4 /
   db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%bx,%1),%2) & FILLB($,%1)/3 /
   db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%bx,%1),%2) & FILLB($,%1)/2 /
   db 0x8B,0xED ; mov ebp,ebp
times MSKLE(FILLB(%bx,%1),%2) & FILLB($,%1)/1 /
   db 0x90 ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__

%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9

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mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub     rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub     rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro
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* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapimin.c
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/*
 * jpegtran.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
 * lossless transcoding between different JPEG file formats. It also
 * provides some lossless and sort-of-lossless transformations of JPEG data.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegtran.c
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No license file was found, but licenses were detected in source scan.

/*
 * jdatadst-tj.c
 *
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 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 */
This file contains compression data destination routines for the case of emitting JPEG data to memory or to a file (or any stdio stream).
While these routines are sufficient for most applications, some will want to use a different destination manager.
IMPORTANT: we assume that fwrite() will correctly transcribe an array of JOCTETs into 8-bit-wide elements on external storage. If char is wider than 8 bits on your machine, you may need to do some tweaking.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdrle.c
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/*
* rdbmp.c
*
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* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
* 
* This code contributed by James Arthur Boucher.
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdbmp.c
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/*
 * jccolor.c
 *
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 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2009-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains input colorspace conversion routines.
 * */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guidó Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.

* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

License: IJG

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo.spec
No license file was found, but licenses were detected in source scan.

/ *
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/ *
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES
/* Does your compiler support the declaration "unsigned char"? */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void. 
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc(). */
#define void char

/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
#define const

/* Define this if an ordinary "char" type is unsigned. 
* If you're not sure, leaving it undefined will work at some cost in speed. 
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal. */
#define CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file. */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>, 
* but does have a BSD-style <strings.h>. */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the 
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in 
* <sys/types.h> instead. */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS, 
* unless you are using a large-data memory model or 80386 flat-memory mode. 
* On less brain-damaged CPUs this symbol must not be defined. 
* (Defining this symbol causes large data structures to be referenced through 
* "far" pointers and to be allocated with a special version of malloc.) */

#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
 * than the first 15 characters. */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
 * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
 * and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
 * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
 * actually get 'missing structure definition' warnings or errors while
 * compiling the JPEG code. */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined. */
#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition. */
#undef RIGHT_SHIFT_IS UNSIGNED

#endif /* JPEG_INTERNALS */

/* The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c). */
* Other applications can ignore these.
*/

#ifndef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED/* BMP image file format */
#define GIF_SUPPORTED/* GIF image file format */
#define PPM_SUPPORTED/* PBMP/PLUS PPM/PGM image file format */
#undef RLE_SUPPORTED/* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */

#ifndef TWO_FILE_COMMANDLINE

/* Define this if you want to name both input and output files on the command 
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpegc or djpegc.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb")
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpegc/djpegc.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

*/

* jpeglib.h
*
This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, 2012-2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains software version identification.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jversion.h
No license file was found, but licenses were detected in source scan.

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# - Redistributions of source code must retain the above copyright notice,
#   this list of conditions and the following disclaimer.
# - Redistributions in binary form must reproduce the above copyright notice,
#   this list of conditions and the following disclaimer in the documentation
# - Neither the name of the libjpeg-turbo Project nor the names of its
#   software without specific prior written permission.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/uninstall.in
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

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This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 *  Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTIWORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
which is used like this:
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this
a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/coderules.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2011 D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcdctmgr.c

No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C)2011 D. R. Commander. All Rights Reserved.
 *
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 * modification, are permitted provided that the following conditions are met:
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 * this list of conditions and the following disclaimer in the documentation
 * and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 * contributors may be used to endorse or promote products derived from this
 * software without specific prior written permission.
 *
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 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.java
No license file was found, but licenses were detected in source scan.

From c51b66ecbace2adec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's JERR_PPM_OUTOFRANGE enum value in lieu of our project-specific JERR_PPM_TOOLARGE enum value.

Fixes #258
---
cderror.h | 5 +++--
rdbmp.c | 7 ++++++-
rddpm.c | 4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)
diff --git a/cderror.h b/cderror.h
index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
* cderror.h
* Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* @ @ -48,6 +48,7 @@ JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 1223
JMMESSAGE(JTRC_BMP_MAPPED, "%u%u 8-bit colormapped BMP image")
JMMESSAGE(JTRC_BMP_OS2, "%u%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@ JMMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
#endif PPM_SUPPORTED
JMMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
JMMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
-JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
+JMESSAGE(JERR_PPM_OUTOFRANGE, "Numeric value out of range in PPM file")
JMMESSAGE(JTRC_PGM, "%u%u PGM image")
JMMESSAGE(JTRC_PGM_TEXT, "%u%u text PGM image")
JMMESSAGE(JTRC_PPM, "%u%u PPM image")
diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
-* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
+* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@ typedef struct _bmp_source_struct {
  int bits_per_pixel;/* remembers 8- or 24-bit format */
+  int cmap_length;  /* colormap length */
} bmp_source_struct;

@@ -124,6 +125,7 @@
  int cmaplen = source->cmap_length;
  JSAMPARRAY image_ptr;
  register int t;
-@@ -140,6 +142,8 @@
  outptr = source->pub.buffer[0];
  for (col = cinfo->image_width; col > 0; col--) {
    t = GETJSAMPLE(*inptr);
+    if (t >= cmaplen)
+        ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
    *outptr++ = colormap[0][t]; /* can omit GETJSAMPLE() safely */
outptr++ = colormap[1][t];
outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
source->colormap = (*cinfo->mem->alloc_sarray)
    ((j_common_ptr) cinfo, JPOOL_IMAGE,
     (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+    source->cmap_length = (int)biClrUsed;
/* and read it from the file */
    read_colormap(source, (int) biClrUsed, mapentrysize);
/* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
    JSAMPROW pixrow;/* FAR pointer to same */
    size_t buffer_width;/* width of I/O buffer */
    JSAMPLE *rescale;/* => maxval-remapping array, or NULL */
-int maxval;
+    unsigned int maxval;
} ppm_source_struct;

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
    }

    if (val > maxval)
-        ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+        ERREXIT(cinfo, JERR_PPM_OUTOFRANGE);

        return val;
    }
--
2.17.2

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains downsampling routines.
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

No license file was found, but licenses were detected in source scan.

/∗
*/
* jsimd_x86_64.c
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* This file contains the interface between the “normal” portions
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can
still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

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*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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

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

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

**TurboJPEG API**: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

**libjpeg API**: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

---

**Installation Directory**

This document assumes that libjpeg-turbo will be installed in the default directory /opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

---

**Replacing libjpeg at Run Time**

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:
[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.392s
user  0m0.074s
sys  0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys  0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

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

Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/[lib] to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command.
To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

=====================  
Colorspace Extensions  
=====================  

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

- JCS_EXT_RGB   /* red/green/blue */
- JCS_EXT_RGBX  /* red/green/blue/x */
- JCS_EXT_BGR   /* blue/green/red */
- JCS_EXT_BGRX  /* blue/green/red/x */
- JCS_EXT_XBGR  /* x/blue/green/red */
- JCS_EXT_XRGB  /* x/red/green/blue */
- JCS_EXT_RGBA  /* red/green/blue/alpha */
- JCS_EXT_BGRA  /* blue/green/red/alpha */
- JCS_EXT_ABGR  /* alpha/blue/green/red */
- JCS_EXT_ARGB  /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```c
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants
are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

#ifdef JCS_ALPHA_EXTENSIONS

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulate the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding
-- libjpeg: In-memory source and destination managers
    See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
    Note that the libjpeg v7+ API was extended to accommodate this feature only
    for convenience purposes. It has always been possible to implement this
    feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the
usefulness of DCT scaling as a means of data reduction and SmartScale as a
means of quality improvement. The reader is invited to peruse the research at
http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions,
but it is the general belief of our project that these features have not
demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
    cinfo.scale_num and cinfo.scale_denom are silently ignored.
    There is no technical reason why DCT scaling could not be supported when
    emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see
    below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and
    8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
    cinfo.block_size is silently ignored.
    SmartScale is an extension to the JPEG format that allows for DCT block
    sizes other than 8x8. Providing support for this new format would be
    feasible (particularly without full acceleration.) However, until/unless
    the format becomes either an official industry standard or, at minimum, an
    accepted solution in the community, we are hesitant to implement it, as
    there is no sense of whether or how it might change in the future. It is
    our belief that SmartScale has not demonstrated sufficient usefulness as a
lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
   cinfo.do_fancy_downsampling is silently ignored.
   This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
   This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
   This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
-----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====================================
In-Memory Source/Destination Managers
=====================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg
v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
**     Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also
because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

*******************************************************************************
**     Performance Pitfalls
*******************************************************************************

==================
Restart Markers
==================

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

No license file was found, but licenses were detected in source scan.

/ *
* jdtrans.c
* *
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
* jdphuff.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines for progressive JPEG.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

/*
* jcmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 1240

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

 begun
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrbmp.c
No license file was found, but licenses were detected in source scan.

 begun
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.h

No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.c

No license file was found, but licenses were detected in source scan.

/*
 * jpegcomp.h
 */
* Copyright (C) 2010, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* JPEG compatibility macros
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegcomp.h
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

/*
* jcolext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cderror.h

No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)

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

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)
Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQ instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM
platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form “'%define' expects a macro identifier”.

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdefg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.
[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
==================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient
version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building
libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.

[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgc2test can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.
[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
=====

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
=====

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
Initial release

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

*/
* jsimd_i386.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

*/
* jdmainct.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jinclude.h

No license file was found, but licenses were detected in source scan.

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
 *******************************************************
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression,
 * the ability to read GIF files has been removed from the IJG distribution.
 * Sorry about that.
 *******************************************************
 *
 * 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."
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdgif.c

No license file was found, but licenses were detected in source scan.

/ *
* simd/jsimd.h
* *
* Copyright 2009 Pierre Osson <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
* *
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* *
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd.h

No license file was found, but licenses were detected in source scan.

/ *
* rdswitch.c
* *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables fileRead quantization tables from text file
* -scans fileRead scan script from text file
* -quality N,[N,...]Set quality ratings
* -qslots N,[N,...]Set component quantization table selectors
* -sample HxV,[HxV,...]Set component sampling factors
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdswitch.c

No license file was found, but licenses were detected in source scan.

; ; jcolsamp.inc - private declarations for color conversion & up/downsampling
; ;
; Copyright 2009 Pierre Osson <ossman@cendio.se> for Cendio AB
; ;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; -----------------------------------------------

; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; -----------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
******************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,      *
* this code has been modified to output "uncompressed GIF" files.            *
* There is no trace of the LZW algorithm in this file.                     *
******************************************************************************
*
 * These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume output to
an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also 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."
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src-rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
=========

Functions provided by the library
-----------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a
scanline at a time, using a straightforward uncompressed image format. All
details of color conversion and other preprocessing/postprocessing can be
handled by the library.

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. The application indirectly selects use of this code
by specifying the format in which it wishes to supply or receive image data.
For example, if colormapped output is requested, then the decompression
library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library
provides multiple implementations that cover most of the useful tradeoffs,
ranging from very-high-quality down to fast-preview operation. On the
compression side we have generally not provided low-quality choices, since
compression is normally less time-critical. It should be understood that the
low-quality modes may not meet the JPEG standard's accuracy requirements;
nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of
the ISO JPEG standard; most baseline, extended-sequential, and progressive
JPEG processes are supported. (Our subset includes all features now in common
use.) Unsupported ISO options include:
  * Hierarchical storage
  * Lossless JPEG
  * DNL marker
  * Nonintegral subsampling ratios
We support both 8- and 12-bit data precision, but this is a compile-time
choice rather than a run-time choice; hence it is difficult to use both
precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in
particular the widely used JFIF file format. The library can be used by
surrounding code to process interchange or abbreviated JPEG datastreams that
are embedded in more complex file formats. (For example, this library is
used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().
JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
===================

Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)
A 2-D array of pixels is formed by making a list of pointers to the starts of
scanlines; so the scanlines need not be physically adjacent in memory. Even
if you process just one scanline at a time, you must make a one-element
pointer array to conform to this structure. Pointers to JSAMPLE rows are of
type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call.
It is not possible to process part of a row at a time. Scanlines are always
processed top-to-bottom. You can process an entire image in one call if you
have it all in memory, but usually it's simplest to process one scanline at
a time.

For best results, source data values should have the precision specified by
BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress
data that's only 6 bits/channel, you should left-justify each value in a
byte before passing it to the compressor. If you need to compress data
that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12.
(See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details,
except that colormapped output is supported. (Again, a JPEG file is never
colormapped. But you can ask the decompressor to perform on-the-fly color
quantization to deliver colormapped output.) If you request colormapped
output then the returned data array contains a single JSAMPLE per pixel;
its value is an index into a color map. The color map is represented as
a 2-D JSAMPARRAY in which each row holds the values of one color component,
that is, colormap[i][j] is the value of the i'th color component for pixel
value (map index) j. Note that since the colormap indexes are stored in
JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE
(ie, at most 256 colors for an 8-bit JPEG library).

Compression details
---------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

   A JPEG compression object is a "struct jpeg_compress_struct". (It also has
   a bunch of subsidiary structures which are allocated via malloc(), but the
   application doesn't control those directly.) This struct can be just a local
   variable in the calling routine, if a single routine is going to execute the
   whole JPEG compression sequence. Otherwise it can be static or allocated
   from malloc().

   You will also need a structure representing a JPEG error handler. The part
of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use
setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- image_width: Width of image, in pixels
- image_height: Height of image, in pixels
- input_components: Number of color channels (samples per pixel)
- in_color_space: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
```
4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.
After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination().
(See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```
where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you
may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components# of color components in out_color_space
output_components# of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your
output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.)

The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to
complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc
-----------------------------------------------

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.
If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
--------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding.
of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

```c
int jpeg_quality_scaling (int quality)
```
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

```c
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
```
[libjpeg v7+ API/ABI emulation only] Set default quantization tables with linear q_scale_factor[] values (see below).

```c
jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
   const unsigned int *basic_table,
   int scale_factor, boolean force_baseline)
```
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).

CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

```c
jpeg_simple_progression (j_compress_ptr cinfo)
```
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

- **J_DCT_METHOD dct_method**
  Selects the algorithm used for the DCT step. Choices are:
  - JDCT_ISLOW: slow but accurate integer algorithm
  - JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
   int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
   TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
   int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
   int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colors() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colors() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLs]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLs]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to cjpeg -quality 90,70:

```c
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

```c
/* Set luminance quality 90. */

/* Set chrominance quality 70. */
```

```c
JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
```

Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

```
JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height
```
Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

```c
int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.
```

```c
int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.
```

```c
int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.
```

```c
int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.
```

```c
int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)
```

Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest)
The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

- **JDIMENSION image_width** Width and height of image
- **JDIMENSION image_height**
- **int num_components** Number of color components
- **J_COLOR_SPACE jpeg_color_space** Colorspace of image
- **boolean saw_JFIF_marker** TRUE if a JFIF APP0 marker was seen
- **UINT8 JFIF_major_version** Version information from JFIF marker
- **UINT8 JFIF_minor_version**
- **UINT8 density_unit** Resolution data from JFIF marker
- **UINT16 X_density**
- **UINT16 Y_density**
- **boolean saw_Adobe_marker** TRUE if an Adobe APP14 marker was seen
- **UINT8 Adobe_transform** Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

- **J_COLOR_SPACE out_color_space** Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

- **unsigned int scale_num, scale_denom** Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

- **boolean quantize_colors**
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

```
int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.
```

```
boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.
```

```
J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)
```

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

```
JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing. CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.
```

```
int actual_number_of_colors
The number of colors in the color map.
```

Additional decompression parameters that the application may set include:

```
J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same
as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * outputComponents JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying.
Special color spaces

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:
- RGB => YCbCr
- RGB => GRAYSCALE
- YCbCr => GRAYSCALE
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

- YCbCr => RGB
- YCbCr => GRAYSCALE
- RGB => GRAYSCALE
- GRAYSCALE => RGB
- YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE => RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- **Fatal errors**: the library cannot continue.
- **Warnings**: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- **Trace/informational messages**: These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

- **error_exit (j_common_ptr cinfo)**
  Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere.
  Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

- **output_message (j_common_ptr cinfo)**
  Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cerror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...)for fatal errors
WARNMSn(...)for corrupt-data warnings
TRACEMSn(...)for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.
Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;   /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.
empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination — called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mng struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).
fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
 suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmarker.c if you think you'd like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOI.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
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Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.
When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already
completed (possibly 0).

* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.
The surrounding application must recognize these cases, load more data into
the input buffer, and repeat the call. In the case of jpeg_read_scanlines(),
icrement the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a
convenient restart point before suspending. When fill_input_buffer() is
called, next_input_byte/bytes_in_buffer point to the current restart point,
which is where the decompressor will backtrack to if FALSE is returned.
The data beyond that position must NOT be discarded if you suspend; it needs
to be re-read upon resumption. In most implementations, you'll need to shift
this data down to the start of your work buffer and then load more data after
it. Again, this behavior means that a several-Kbyte work buffer is essential
for decent performance; furthermore, you should load a reasonable amount of
new data before resuming decompression. (If you loaded, say, only one new
byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a
suspension scenario. This routine is NOT granted the ability to suspend the
decompressor; it can decrement bytes_in_buffer to zero, but no more. If the
requested skip distance exceeds the amount of data currently in the input
buffer, then skip_input_data() must set bytes_in_buffer to zero and record the
additional skip distance somewhere else. The decompressor will immediately
call fill_input_buffer(), which should return FALSE, which will cause a
suspension return. The surrounding application must then arrange to discard
the recorded number of bytes before it resumes loading the input buffer.
(Yes, this design is rather baroque, but it avoids complexity in the far more
common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning
and insert dummy EOI markers just as a non-suspending data source manager
would do. This can be handled either in the surrounding application logic or
within fill_input_buffer(); the latter is probably more efficient. If
fill_input_buffer() knows that no more data is available, it can set the
pointer/count to point to a dummy EOI marker and then return TRUE just as
though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers;
instead it will backtrack to the start of the marker and reprocess the whole
marker next time. Hence the input buffer must be large enough to hold the
longest standard marker in the file. Standard JPEG markers should normally
not exceed a few hundred bytes each (DHT tables are typically the longest).
We recommend at least a 2K buffer for performance reasons, which is much
larger than any correct marker is likely to be. For robustness against
damaged marker length counts, you may wish to insert a test in your
application for the case that the input buffer is completely full and yet
the decoder has suspended without consuming any data --- otherwise, if this
situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a
slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.

The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We
should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

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In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()  
set data source  
jpeg_read_header()  
set overall decompression parameters  
cinfo.buffered_image = TRUE; /* select buffered-image mode */  
jpeg_start_decompress()  
for (each output pass) {  
    adjust output decompression parameters if required  
jpeg_start_output(); /* start a new output pass */  
    for (all scanlines in image) {  
        jpeg_read_scanlines()  
        display scanlines  
    }  
jpeg_finish_output(); /* terminate output pass */
```
This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```c
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass.

Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

- `JPEG_REACHED_SOS`: reached an SOS marker (the start of a new scan)
- `JPEG_REACHED_EOI`: reached the EOI marker (end of image)
- `JPEG_ROW_COMPLETED`: completed reading one MCU row of compressed data
- `JPEG_SCAN_COMPLETED`: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library’s output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
  state of the library’s input processing.

The first of these benefits only requires interspersing calls to
jpeg_consume_input() with your display operations and any other processing
you may be doing. To avoid wasting cycles due to backtracking, it’s best to
call jpeg_consume_input() only after a hundred or so new bytes have arrived.
This is discussed further under “I/O suspension”, above. (Note: the JPEG
library currently is not thread-safe. You must not call jpeg_consume_input()
from one thread of control if a different library routine is working on the
same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available
before you start a new output pass, you may as well skip the output pass
corresponding to the completed scan. This occurs for free if you pass
cinfo.input_scan_number as the target scan number to jpeg_start_output().
The input_scan_number field is simply the index of the scan currently being
consumed by the input processor. You can ensure that this is up-to-date by
emptying the input buffer just before calling jpeg_start_output(): call
jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or
JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the
cinfo.output_scan_number field. The library’s output processing calls
jpeg_consume_input() whenever the current input scan number and row within
that scan is less than or equal to the current output scan number and row.
Thus, input processing can “get ahead” of the output processing but is not
allowed to “fall behind”. You can achieve several different effects by
manipulating this interlock rule. For example, if you pass a target scan
number greater than the current input scan number, the output processor will
wait until that scan starts to arrive before producing any output. (To avoid
an infinite loop, the target scan number is automatically reset to the last
scan number when the end of image is reached. Thus, if you specify a large
target scan number, the library will just absorb the entire input file and
then perform an output pass. This is effectively the same as what
jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
```
break;
}
In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
jpeg Finish Output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg Consume Input() has already reached the end of the file or a SOS marker beyond the target output scan.)

jpeg Finish Decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg Input Complete()).

jpeg Start Output(), jpeg Finish Output(), and jpeg Finish Decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg Start Decompress() is called:

* dct_method can be changed before each call to jpeg Start Output(). For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* dither_mode can be changed before each call to jpeg Start Output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg Start Output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is
   probably NOT what you want for the first pass of progressive display!)
   These methods offer successively better quality and lesser speed. However,
   only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different
working-storage requirements, the library requires you to indicate which
one(s) you intend to use before you call jpeg_start_decompress(). (If we did
not require this, the max_memory_to_use setting would be a complete fiction.)
You do this by setting one or more of these three cinfo fields to TRUE:
  enable_1pass_quantFixed color cube colormap
  enable_external_quantExternally-supplied colormap
  enable_2pass_quantTwo-pass custom colormap
All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass
   or 2-pass mode from a different mode, or when you want the 2-pass
   quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external
   colormap than was used on the prior pass, you must call
   jpeg_new_colormap() after setting cinfo.colormap.
NOTE: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.
(These requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

-------------------------------------------
A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at
If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.
To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module.
(If you did reinitialize, any partial bufferload left in the data source
buffer at the end of one image would be discarded, causing you to lose the
start of the next image.) When you use this method, stored tables are
automatically carried forward, so some of the images can be abbreviated images
that depend on tables from earlier images.

If you intend to write a series of images into a single destination file,
you might want to make a specialized data destination module that doesn't
flush the output buffer at term_destination() time. This would speed things
up by some trifling amount. Of course, you'd need to remember to flush the
buffer after the last image. You can make the later images be abbreviated
ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG
datastream. The JPEG standard provides marker types "COM" (comment) and
"APP0" through "APP15" (application) to hold application-specific data.
Unfortunately, the use of these markers is not specified by the standard.
COM markers are fairly widely used to hold user-supplied text. The JFIF file
format spec uses APP0 markers with specified initial strings to hold certain
data. Adobe applications use APP14 markers beginning with the string "Adobe"
for miscellaneous data. Other APPn markers are rarely seen, but might
contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers
and place readable 7-bit ASCII text in them. Newline conventions are not
standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR
(Mac style). A robust COM reader should be able to cope with random binary
garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version...
To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that
jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing:
you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only
DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don’t need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder’s coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object’s memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.
When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
--------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change
it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

```c
long pass_counter; /* work units completed in this pass */
long pass_limit;  /* total number of work units in this pass */
int completed_passes;  /* passes completed so far */
int total_passes;  /* total number of passes expected */
```

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit) total_passes ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the
Some data is allocated “permanently” and will not be freed until the JPEG object is destroyed. Most data is allocated “per image” and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library’s minimum space requirements to process an image depend on the image’s width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (e.g., two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc’ed. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either,
since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.
Library compile-time options

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORTEXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table...
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(jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don’t need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we’d appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that:
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error
handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
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The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600
bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/libjpeg.txt
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TurboJPEG Java Wrapper
======================

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.
Installation Directory

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/README
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 * jdcoлект.c
 *
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 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
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/*
 * cdjpeg.h
 *
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 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.h
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; for more details.
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/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

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 *
 * This file contains routines to write JPEG datastream markers.
 */
Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemmgr.c
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/*
 * jmemmgr.c
 *
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 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 *     virtual arrays;
 * * control logic for swapping virtual arrays between main memory and
 *     backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
 * memory so that backing storage will never be used, much of the virtual
 * array control logic could be removed. (Of course, if you have that much
 * memory then you shouldn't care about a little bit of unused code...)
 */

Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctflt.c
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/*
 * jidctflt.c
 *
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 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
This implementation should be more accurate than either of the integer IDCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware’s floating point capacity.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it’s more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJBench.java

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*/

* jsimd_none.c
*
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* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
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*
* This file contains stubs for when there is no SIMD support available.
*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd_none.c

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libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.
libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
  */opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
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/ * jfdctfst.c * Copyright (C) 1994-1996, Thomas G. Lane. * This file is part of the Independent JPEG Group's software. * For conditions of distribution and use, see the accompanying README file. * * This file contains a fast, not so accurate integer implementation of the * forward DCT (Discrete Cosine Transform). * * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT * on each column. Direct algorithms are also available, but they are * much more complex and seem not to be any faster when reduced to code. * * This implementation is based on Arai, Agui, and Nakajima's algorithm for * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in * Japanese, but the algorithm is described in the Pennebaker & Mitchell * JPEG textbook (see REFERENCES section in file README). The following code * is based directly on figure 4-8 in P&M. * While an 8-point DCT cannot be done in less than 11 multiplies, it is * possible to arrange the computation so that many of the multiplies are * simple scalings of the final outputs. These multiplies can then be * folded into the multiplications or divisions by the JPEG quantization * table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/objj/jpeg-turbo-1.2.90/jfdctfst.c
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 * wrrle.c
 * 
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 * 
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 * 
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 * 
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 * /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/wrrle.c
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/simd/jimmxred.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/simd/jccolss2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdclrss2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrass2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdclrss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrmmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jciss2red-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrmmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcsamss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsammsasmxm.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsamss2-64.asm
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* Modified 2009 by Guido Vollbeding.
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* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMLPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrppm.c

1.141 spdylay 1.4.0
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1.142 avahi 0.6.31 20.el7
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/BitOutputStream.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Compressor.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Keep.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/BitInputStream.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/MapKeep.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/PostMortem.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/TrieKeep.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/JSONzip.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Huff.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Kim.java

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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Property.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CookieList.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONTokener.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XML.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CDL.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XMLTokener.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/HTTPTokener.java

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1.147 jetty 9.4.39.v20210325

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

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

------

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

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

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Apache

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

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

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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* /opt/ws_local/PERMITS_SQL/1068228479_1594322464.94/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/metrics/PoolStats.java

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jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
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jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /opt/ws_local/PERMITS_SQL/1068228479_1594322464.94/0/hikaricp-3-4-5-sources-
jar/com/zaxxer/hikari/metrics/MetricsTracker.java
* /opt/ws_local/PERMITS_SQL/1068228479_1594322464.94/0/hikaricp-3-4-5-sources-
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* /opt/ws_local/PERMITS_SQL/1068228479_1594322464.94/0/hikaricp-3-4-5-sources-
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* /opt/ws_local/PERMITS_SQL/1068228479_1594322464.94/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
* /opt/ws_local/PERMITS_SQL/1068228479_1594322464.94/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java

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* /opt/ws_local/PERMITS_SQL/1068228479_1594322464.94/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/pool/ProxyConnection.java
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* /opt/ws_local/PERMITS_SQL/1068228479_1594322464.94/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/util/SuspendResumeLock.java
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* /opt/cola/permits/1150250335_1627682078.02/0/wildfly-elytron-http-util-1-10-3-final-sources-jar/org/wildfly/security/http/util/SecurityProviderServerMechanismFactory.java
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* /opt/cola/permits/1150250388_1627682374.9/0/wildfly-elytron-credential-source-deprecated-1-10-3-final-sources-jar/org/wildfly/security/credential/source/KeyStoreCredentialSource.java
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* /opt/cola/permits/1150250388_1627682374.9/0/wildfly-elytron-credential-source-deprecated-1-10-3-final-sources-jar/org/wildfly/security/credential/source/FactoryCredentialSource.java

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1.164 webswing-app-toolkit-java7 2.5-SNAPSHOT

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1.166 snake-yaml 1.17

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1.167 maven-plugin-api 3.0

1.168 dracut 033-572.el7

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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
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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1.176 pika 1.1.0

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1.177 jboss-transaction-spi 7.6.0.Final

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1.179 pyxattr 0.5.1

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MySQL Connector/J 8.0

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Simple Logging Facade for Java (SLF4J)

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1.181 dom4j 1.6.1
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History:
Date       Who                What
28oct1999  dl               Created
14dec1999  dl               jmm snapshot
19apr2000  dl               use barrierLock
12jan2001  dl               public release
17nov2001  dl               Minor tunings
20may2002  dl               BarrierLock can now be serialized.
09dec2002  dl               Fix interference checks.
*/

Found in path(s):
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/ConcurrentReaderHashMap.java
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* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/InvalidXPathException.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ProcessingInstruction.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/LeafTreeNode.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/XPath.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/IndexedElement.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultAttribute.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Branch.java
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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
- 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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1.185 jakarta-inject 2.6.1

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1.187 xorg-x11-xkb-utils 7.7 14.el7

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  jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
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/**
 * {@link FactoryBean} that obtains a WebSphere <code>AdminServiceFactory</code> API,
 * available on WebSphere 5.1 and higher.
 */

/*
<p>Exposes the <code>MBeanServer</code> for bean references.
*/
This FactoryBean is a direct alternative to \{link MBeanServerFactoryBean\}, which uses standard JMX 1.2 API to access the platform's MBeanServer.

* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
* @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
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  jar/org/springframework/remoting/support/RemoteInvocation.java
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  jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
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  jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
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  jar/org/springframework/scripting/bsh/BshScriptFactory.java
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  jar/org/springframework/validation/FieldError.java
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  jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
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jar/org/springframework/ui/context/support/DelegatingThemeSource.java

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as URL query parameters or form field values before they are rendered by a
view or before a redirect.

Implementations may use this contract for example as part of a solution
to provide data integrity, confidentiality, protection against cross-site
request forgery (CSRF), and others or for other tasks such as automatically
adding a hidden field to all forms and URLs.

View technologies that support this contract can obtain an instance to
delegate to via {@link RequestContext#getRequestDataValueProcessor()}. 

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jar/or/springframework/web/servlet/mvc/method/annotation/ServletRequestDataBinderFactory.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/or/springframework/web/servlet/config/annotation/ResourceHandlerRegistration.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/or/springframework/web/servlet/resource/AbstractResourceResolver.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/or/springframework/web/servlet/view/xslt/XsltViewResolver.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/or/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.j
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jar/or/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
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* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
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* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/or/springframework/web/servlet/mvc/ServletForwardingController.java
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* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
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* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
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* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/or/springframework/web/servlet/support/JspAwareRequestContext.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
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  jar/org/springframework/web/servlet/tags/BindErrorsTag.java
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  jar/org/springframework/web/servlet/handler/MappedInterceptor.java
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* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
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  */
/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* [ @link locateSource detected ] during response rendering. Users can either specify
* a specific entry in the model via the [ @link setSourceKey sourceKey ] property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See [ @link getSourceTypes() here ]
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure [ @link setOutputProperties output properties ]
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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  jar/org/springframework/web/servlet/view/xslt/XsltView.java
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* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/config/annotation/ContentNegotiationConfigurer.java
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* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfo.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceHttpRequestHandler.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/function/DefaultServerRequest.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/tags/form/ErrorsTag.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/MvcUriComponentsBuilder.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/ParamsRequestCondition.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/org/springframework/web/mvc/condition/HeadersRequestCondition.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/org/springframework/web/servlet/HandlerExecutionChain.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/PathMatchConfigurer.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/org/springframework/web/servlet/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/org/springframework/web/servlet/function/RouterFunctionBuilder.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitter.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
jar/org/springframework/web/servlet/view/tiles3/AbstractSpringPreparerFactory.java
* /opt/cola/permits/1135892597_1613626904.48/0/spring-webmvc-5-2-10-release-sources-1-
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PLY (Python Lex-Yacc) Version 3.10

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Introduction

============
PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

   import lex
   import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
==============
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

   http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

   https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

   http://groups.google.com/group/ply-hack

Acknowledgments
=================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.
Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0

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

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example

=======

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# calc.py
#
# A simple calculator with variables.
#

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
)

t_PLUS    = r'\+'

t_MINUS   = r'-'

t_TIMES   = r'\*'

t_DIVIDE  = r'/'

t_EQUALS  = r'='

t_LPAREN  = r'\(' 

t_RPAREN  = r')'

t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]+'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

t_ignore = " \
```

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```python
def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    "expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression"

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]
```

---

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 1783
def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '{}'", p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '{}'", p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
=======================

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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

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

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

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

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

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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-------

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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1.jar/org/springframework/beans/factory/support/GenericBeanDefinition.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1.jar/org/springframework/beans/factory/support/AutowireUtils.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1.jar/org/springframework/beans/factory/support/ConstructorResolver.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1.jar/org/springframework/beans/factory/config/AutowiredPropertyMarker.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1.jar/org/springframework/beans/factory/config/ListableBeanFactory.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1.jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
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sources-jar/META-INF/maven/org.springframework.boot/spring-boot-starter-validation/pom.xml

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jar/org/dom4j/io/DOMReader.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/DocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultDocument.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DocumentResult.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXModifyElementHandler.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/UserDataElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/ValidatingXMLReader.java
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* jar/org/dom4j/io/SAXReader.java
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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/decorators/PickableVertexIconTransformer.java
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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/control/ModalGraphMouse.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/control/ModalLensGraphMouse.java
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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/subLayout/package.html
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/transform/package.html
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/package.html
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/control/package.html
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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/renderers/EdgeLabelRenderer.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/renderers/DefaultVertexLabelRenderer.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/renderers/VertexLabelRenderer.java

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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/decorators/EllipseVertexShapeTransformer.java

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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/control/GraphMouseAdapter.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/control/AbstractGraphMousePlugin.java

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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-
  jar/edu/uci/ics/jung/visualization/subLayout/TreeCollapser.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-
  jar/edu/uci/ics/jung/visualization/renderers/BasicEdgeLabelRenderer.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-
  jar/edu/uci/ics/jung/visualization/subLayout/GraphCollapser.java
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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/picking/LayoutLensShapePickSupport.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/picking/ShapePickSupport.java
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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/control/AbsoluteCrossoverScalingControl.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/control/AbstractPopupGraphMousePlugin.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/transform/shape/MagnifyShapeTransformer.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/transform/shape/Intersector.java
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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/transform/BidirectionalTransformer.java

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* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/VisualizationImageServer.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/VisualizationServer.java
* /opt/cola/permits/1150250027_1627682372.03/0/jung-visualization-2-1-1-sources-jar/edu/uci/ics/jung/visualization/picking/PickedInfo.java
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1.227 jackson 2.10.3

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  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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/**
 * Creates a new [GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [Type]).
 */
* @throws IllegalStateException
*             If a subclass calls this constructor.
*
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  jar/org/objectweb/asm/commons/RemappingClassAdapter.java
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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see { @link Opcodes}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type Type}).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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*/
/**
 * Constructs a new [LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 *    a reference to the annotated type. See [TypeReference].
 * @param typePath
 *    the path to the annotated type argument, wildcard bound, array
 *    element type, or static inner type within 'typeRef'. May be
 *    <i>null</i> if the annotation targets 'typeRef' as a whole.
 * @param start
 *    the fist instructions corresponding to the continuous ranges
 *    that make the scope of this local variable (inclusive).
 * @param end
 *    the last instructions corresponding to the continuous ranges
 *    that make the scope of this local variable (exclusive). This
 *    array must have the same size as the 'start' array.
 * @param index
 *    the local variable's index in each range. This array must have
 *    the same size as the 'start' array.
 * @param desc
 *    the class descriptor of the annotation class.
 */

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/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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 */
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]) ]
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes }). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type }).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getName() getInternalName ()} ). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
*/

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 */
/**
 * Constructs a new [ @link ClassNode](#). <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ @link #ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException

/* If a subclass calls this constructor.
*/

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1.234 reactor-netty 0.9.2.RELEASE

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 * Encodes and decodes to and from Base64 notation. <p/>
   Change Log: </p>
   * <ul>
     * v2.1 - Cleaned up javadoc comments and unused variables and
     * files. 
     * v2.0.2 - Now specifies UTF-8 encoding in places where the
     * code fails on systems with other encodings (like EBCDIC).
     * v2.0.1 - 
     * Fixed an error when decoding a single byte, that is, when the encoded data
     * was a single byte. 
     * v2.0 - I got rid of methods that used booleans
     * to set options. Now everything is more consolidated and cleaner. The code
     * now detects when data that's being decoded is gzip-compressed and will
     * decompress it automatically. Generally things are cleaner. You'll probably
     * have to change some method calls that you were making to support the new
     * options format (int OR int) s that you "OR" together.
     * v1.5.1 - 
     * Fixed bug when decompressing and decoding to a byte[] using decode(
     * String s, boolean gzipCompressed ) /tt/. Added the ability to "suspend"
     * encoding in the Output Stream so you can turn on and off the encoding if you
     * need to embed base64 data in an otherwise "normal" stream (like an XML
     * file). 
     * v1.5 - Output stream pases on flush() command but doesn't do
     * anything itself. This helps when using GZIP streams. Added the ability to
     * GZip-compress objects before encoding them. 
     * v1.4 - Added helper
     * methods to read/write files. 
     * v1.3.6 - Fixed OutputStream.flush() so
     * that 'position' is reset. 
     * v1.3.5 - Added flag to turn on and off
     * line breaks. Fixed bug in input stream where last buffer being read, if not
     * completely full, was not returned. 
     * v1.3.4 - Fixed when "improperly
     * padded stream" error was thrown at the wrong time. 
     * v1.3.3 - Fixed
     * I/O streams which were totally messed up. 
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   * 
   * @author Robert Harder
   * @author rob@iharder.net
   * @since 4.2
   * @deprecated Not currently used internally by Infinispan; will be removed in ver. 10. Other users are advised to
   * replace it with [@link java.util.Base64].
   */

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1.243 rpm 4.11.3-45.el7

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1.253 grep 2.20-3.el7

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version 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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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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  jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
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  jar/org/springframework/aop/framework/Advised.java
* /opt/cola/permits/1136702296_1613865146.2/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/AopProxyFactory.java
* /opt/cola/permits/1136702296_1613865146.2/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
* /opt/cola/permits/1136702296_1613865146.2/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/IntroductionInfo.java
* /opt/cola/permits/1136702296_1613865146.2/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/RawTargetAccess.java
* /opt/cola/permits/1136702296_1613865146.2/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/BeforeAdvice.java
jar/org/springframework/aop/DynamicIntroductionAdvice.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/adapter/AdvisorAdapter.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/adapter/IntroductionAdvisor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/adapter/ClassFilter.java
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java

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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
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  jar/springfox/documentation/spi/schema/SyntheticModelProviderPlugin.java
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/OperationContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ResponseContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/PathContext.java
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/contexts/ModelContext.java
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jar/org/springframework/orm/jpa/JpaSystemException.java
 * /opt/ws_local/PERMITS_SQL/1068412384_1594388478.68/0/spring-orm-5-2-5-release-sources-
jar/org/springframework/orm/hibernate5/SpringSessionSynchronization.java
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jar/org/springframework/orm/hibernate5/SpringJtaSessionContext.java
 * /opt/ws_local/PERMITS_SQL/1068412384_1594388478.68/0/spring-orm-5-2-5-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068412384_1594388478.68/0/spring-orm-5-2-5-release-sources.jar/org/springframework/orm/hibernate5/HibernateJdbcException.java
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 * @param emf the EntityManagerFactory to obtain EntityManagers from as needed
 * @param properties the properties to be passed into the
 *    [{@code createEntityManager} call (may be {@code null})
 * @param entityManagerInterfaces the interfaces to be implemented by the
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  jar/org/wildfly/security/x500/cert/CRLDistributionPointsExtension.java
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  jar/org/wildfly/security/x500/cert/NameConstraintsExtension.java
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* /opt/cola/permits/1150251391_1627682086.75/0/wildfly-elytron-x500-cert-1-10-3-final-sources.jar/org/wildfly/security/x500/cert/CertUtil.java
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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/threading.h
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mem.h

low-level memory access routines

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*/
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v01.c
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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v03.c
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1.3.3/zstd/lib/legacy/zstd_v02.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/zstd_opt.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v011.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/zstd_internal.h
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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/zstd_fast.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/zstdmt_compress.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/zstd_double_fast.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v06.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/zstd_compress.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/zstdmt_compress.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/zstd_double_fast.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/compiler.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v04.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v05.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/zstd_common.c
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/zstd_lazy.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v03.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/zstd_errors.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_legacy.h
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-
1.3.3/zstd/lib/compress/zstd_lazy.c
*/opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/error_private.h
*/opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/error_private.c
*/opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/legacy/zstd_v07.h
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****************************************************************** */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/common/fse.h
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/fse_compress.c

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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/zstd/lib/compress/zstd_ldm.c
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* /opt/ws_local/PERMITS_SQL/1038327947_1589438971.26/0/zstd-1-3-3-tar-gz/zstd-1.3.3/PKG-INFO

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1.282 log4j-api 2.12.1

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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mecab-ipadic-2.7.0-20070801

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1.287 okhttp 2.5.0

1.288 gson 2.8.5

1.289 sjsxp 1.0.1

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*/

Hello
jar/org/springframework/format/datetime/standard/Jsr310DateTimeFormatAnnotationFormatterFactory.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/stereotype/Service.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/weaving/LoadTimeWeaverAwareProcessor.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/support/AbstractXmlApplicationContext.java
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* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/stereotype/Component.java
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/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but 
* provide a special exception that should be used to wrap any 
* exception that was thrown by the underlying invocation. 
* Callers are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/

Found in path(s):
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-
jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskExecutor.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-jar/org/springframework/cache/support/NoOpCache.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-jar/org/springframework/context/annotation/Condition.java
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* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/format/datetime/joda/OptionalValidatorFactoryBean.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/i18n/LocaleContext.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/ScopedProxyMode.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/validation/AbstractBindingResult.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/validation/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/ConfigurationCondition.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/ScopedGenericBeanDefinition.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/ScopedProxyMode.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/ScopedGenericBeanDefinition.java
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* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/ScopedProxyMode.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/ScopedProxyMode.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1
jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-
jar/org/springframework/context/annotation/FilterType.java
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jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
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jar/org/springframework/context/annotation/Lazy.java
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jar/org/springframework/format/date-time/joda/MillisecondInstantPrinter.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-
jar/org/springframework/format/date-time/joda/LocalDateTimeParser.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-
jar/org/springframework/format/date-time/joda/DateTimeParser.java

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jar/org/springframework/context/annotation/PropertySources.java
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jar/org/springframework/cache/interceptor/BasicOperation.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-
jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-
jar/org/springframework/validation/annotation/Validated.java
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jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
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jar/org/springframework/context/ApplicationContext.java
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* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
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* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/ImportResource.java
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* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/Role.java
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* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/ImportResource.java
* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1.jar/org/springframework/context/annotation/Role.java
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jar/org/springframework/context/PayloadApplicationEvent.java
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* /opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-
  jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
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  jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
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  jar/org/springframework/jmx/export/annotation/ManagedResource.java
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  jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
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  jar/org/springframework/scripting/support/StandardScriptEvalException.java
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/**
 * Indicates that a component is only eligible for registration when all
 * [ @linkplain #value specified conditions ] match.
 *
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see [ @link Condition ] for details).
 *
 * <p>The [ @code @Conditional ] annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * [ @code @Component ], including [ @link Configuration @Configuration ] classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any [ @link Bean @Bean ] method</li>
 * </ul>
<p>If a `@Configuration` class is marked with `@Conditional`, all of the `@Bean` methods, `@Import @Import` annotations, and `@ComponentScan @ComponentScan` annotations associated with that class will be subject to the conditions.</p>

<p><strong>NOTE</strong>: Inheritance of `@Conditional` annotations is not supported; any conditions from superclasses or from overridden methods will not be considered. In order to enforce these semantics, `@code @Conditional` itself is not declared as `@link java.lang.annotation.Inherited @Inherited`; furthermore, any custom `<em>composed annotation</em>` that is meta-annotated with `@code @Conditional` must not be declared as `@code @Inherited`.</p>

@since 4.0

@see Condition

*/

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/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
* Exposes the {@code MBeanServer} for bean references.
* This {@code FactoryBean} is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's {@code MBeanServer}.
* See the javadocs for WebSphere's
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

Found in path(s):
/opt/cola/permits/1135892678_1613626672.8/0/spring-context-5-2-10-release-sources-1-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

1.291 connect-json 2.3.1
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-21-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-21-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-21-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-21-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-21-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-21-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m
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Found in path(s):
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift

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Pod::Spec.new do |
  s.name = "DCPathButton"
  s.version = "2.1.1"
  s.summary = " A beautiful button copy from Path® "

  s.description = <<-DESC
DCPathButton is a menu button, design by an famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :) 
DESC

  s.homepage = "https://github.com/Tangdixi/DCPathButton"

  s.license = {
    type => 'MIT',
    text => 'The DCPathButton use the MIT license'
  }

  s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

  s.platform = :ios, '7.0'

  s.source = {
    :git => "https://github.com/Tangdixi/DCPathButton.git",
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 2383

:tag => "2.1.1"
}

s.source_files = 'DCPathButton/Classes/*.h,m'

s.resources = ['DCPathButton/Sounds/**']

s.frameworks = 'QuartzCore','AudioToolbox'

s.requires_arc = true

end

Found in path(s):
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
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1.296 maven-compiler-plugin 3.1

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1.298 jackson-jaxrs-base 2.9.6

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1.299 libxcb 1.13 1.el7

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1.300 jackson-dataformat-cbor 2.11.4

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 */
/**
 * Creates a new [ @link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * [ @param mv
 *    the method visitor to which this adapter delegates calls.
 * [ @param access
 *    the method's access flags (see [ @link Opcodes]).
 */
* the method's name.
* @param desc
* the method's descriptor (see [{@link Type Type}]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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a reference to the annotated type. See {@link TypeReference}.
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
* the fist instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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jar/org/objectweb/assembler/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/tree/LdcInsnNode.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/tree/FrameNode.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/tree/MethodInsnNode.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/asm/tree/Handler.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/asm/tree/try/try/Interpreter.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/asm/signature/SignatureWriter.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/asm/signature/SignatureWriter.java
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jar/org/objectweb/assembler/asm/CheckFieldAdapterFactory.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
jar/org/objectweb/assembler/asm/AdviceAdapterFactory.java
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* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-jar/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-jar/org/objectweb/asm/optimizer/shrink-writer.properties
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-jar/org/objectweb/asm/optimizer/shrink-annotations.properties

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*/
/**
 * Constructs a new { @link Textifier}. <i>Subclasses must not use this
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 * version.
 * *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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  jar/org/objectweb/asm/util/Textifier.java

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  jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1137133819_1614022240.4/0/asm-commons-5-0-1-sources-1-
  jar/org/objectweb/asm/TypeReference.java
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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor) ]
 * version.
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [ @link Opcodes ]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [ @link Type Type ]).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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*/
/**
 * Constructs a new [link ClassNode]. **Subclasses must not use this
 * constructor**. Instead, they must use the [link #ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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 * Creates a new JSRInliner. <i>Subclasses must not use this
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 * \[@link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])\]
 * version.
 *
 * \[@param mv\]
 * the \<code>MethodVisitor</code> to send the resulting inlined
 * method code to (use \<code>null</code> for none).
 *
 * \[@param access\]
 * the method's access flags (see \[@link Opcodes\]). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 *
 * \[@param name\]
 * the method's name.
 *
 * \[@param desc\]
 * the method's descriptor (see \[@link Type\]).
 *
 * \[@param signature\]
 * the method's signature. May be \<tt>null</tt>.
 *
 * \[@param exceptions\]
the internal names of the method’s exception classes (see
{@link Type#getInternalName() getInternalName}). May be
<tt>null</tt>
.* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/stream/ChunkedInput.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/logging/LogLevel.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/logging/LoggingHandler.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/timeout/IdleStateEvent.java
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  jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
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* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-
  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-
  jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-
  jar/io/netty/handler/ssl/AbstractSniHandler.java
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  jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
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  jar/io/netty/handler/ssl/Java9SslEngine.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-
  jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/PseudoRandomFunction.java

* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/SslContext.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
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jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-
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1.310 maven-plugin-api 2.0.6

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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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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.

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.

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that 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.

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.

d) 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.

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

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

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

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

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

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

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work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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  jar/io/netty/handler/codec/ValueConverter.java
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/**
 * Utility class for { @link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
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/* Base64 Encoder/Decoder*/

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* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/HeaderUtils.java
* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
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* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-jar/io/netty/handler/codec/MessageToMessageDecoder.java

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* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-jar/io/netty/handler/codec/EmptyHeaders.java

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*/
/**
* A decoder that splits the received ByteBufs dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* [LengthFieldBasedFrameDecoder] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* <h3>2 bytes length field at offset 0, do not strip header</h3>
* The value of the length field in this example is 12 (0x0C) which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* </pre>
* <h3>2 bytes length field at offset 0, strip header</h3>
* Because we can get the length of the content by calling
* [ByteBuf#readableBytes()], you might want to strip the length
* field by specifying initialBytesToStrip. In this example, we
* specified 2, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* </pre>
initialBytesToStrip = 2 (the length of the Length field)

BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

Length | Actual Content | Length | Actual Content |
| 0x000C | "HELLO, WORLD" | 0x000E | "HELLO, WORLD" |

lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = -2 (the length of the Length field)
initialBytesToStrip = 0

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

Length | Actual Content | Length | Actual Content |
| 0x000E | "HELLO, WORLD" | 0x000E | "HELLO, WORLD" |

lengthFieldOffset = 2 (the length of Header 1)
lengthFieldLength = 3
lengthAdjustment = 0
initialBytesToStrip = 0

BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)

Header 1 | Length | Actual Content | Length | Actual Content |
| 0xCAFE | 0x00000C | "HELLO, WORLD" | 0xCAFE | 0x00000C | "HELLO, WORLD" |
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```
lengthFieldOffset = 0
lengthFieldLength = 3
<b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
initialBytesToStrip = 0
```

**BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)**

```
<table>
<thead>
<tr>
<th>Length</th>
<th>Header 1</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x00000C</td>
<td>0xCAFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.

The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
<b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
<b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
```

**BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)**

```
<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x000C</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
<b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
<b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
```

**BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)**

```
<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x000C</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```
Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.

We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`, just like the third example. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

```
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = -3 (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = 3

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+

* </pre>

@see LengthFieldPrepender

*/

Found in path(s):
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  jar/io/netty/handler/codec/DateFormatter.java
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  jar/io/netty/handler/codec/CodecOutputList.java
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1.326 wildfly-elytron-auth-util 1.10.3.Final

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1.327 ehcache 2.10.6

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package net.sf.ehcache.store;

import net.sf.ehcache.Element;
import net.sf.ehcache.config.CacheConfiguration;
import net.sf.ehcache.store.compound.ReadWriteCopyStrategy;

/**
 * Copies elements, either on read, write or both before using the underlying store to actually store things
 * When copying both ways, the store might not see the same types being stored
 * @param <T> the store type it wraps
 *
 * @author Alex Snaps
 */
public final class CopyingCacheStore<T extends Store> extends AbstractCopyingCacheStore<T> {

  /**
   * Creates a copying instance of store, that wraps the actual storage
   *
   * @param store the real store
   * @param copyOnRead whether to copy on reads
   * @param copyOnWrite whether to copy on writes
   * @param copyStrategyInstance the copy strategy to use on every copy operation
   * @param loader classloader of the containing cache
   */
  public CopyingCacheStore(T store, boolean copyOnRead, boolean copyOnWrite, ReadWriteCopyStrategy<Element> copyStrategyInstance, ClassLoader loader) {
    super(store, copyOnRead, copyOnWrite, copyStrategyInstance, loader);
  }

  /**
   * Wraps the Store instance passed in, should any copy occur
   * @param cacheStore the store
   * @param cacheConfiguration the cache config for that store
   * @return the wrapped Store if copying is required, or the Store instance passed in
   */
  public static Store wrapIfCopy(final Store cacheStore, final CacheConfiguration cacheConfiguration) {
    if (requiresCopy(cacheConfiguration)) {
      return wrap(cacheStore, cacheConfiguration);
    }
    return cacheStore;
  }
}
/**
 * Wraps (always) with the proper configured CopyingCacheStore
 * @param cacheStore the store to wrap
 * @param cacheConfiguration the cache config backed by this store
 * @param <T> the Store type
 * @return the wrapped store
 */
private static <T extends Store> CopyingCacheStore<T> wrap(final T cacheStore, final CacheConfiguration cacheConfiguration) {
    final ReadWriteCopyStrategy<Element> copyStrategyInstance = cacheConfiguration.getCopyStrategyConfiguration()
        .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
    return new CopyingCacheStore<T>(cacheStore, cacheConfiguration.isCopyOnRead(), cacheConfiguration.isCopyOnWrite(), copyStrategyInstance, cacheConfiguration.getClassLoader());
}

/**
 * Checks whether configuration enables copying
 * @param cacheConfiguration the cache config
 * @return true is copying is required, otherwise false
 */
static boolean requiresCopy(final CacheConfiguration cacheConfiguration) {
    return cacheConfiguration.isCopyOnRead() || cacheConfiguration.isCopyOnWrite();
}

private static boolean isCopyOnReadAndCopyOnWrite(final CacheConfiguration cacheConfiguration) {
    return cacheConfiguration.isCopyOnRead() && cacheConfiguration.isCopyOnWrite();
}

/**
 * Wraps the given {@link net.sf.ehcache.store.ElementValueComparator} if the configuration requires copy on read
 * @param comparator the comparator to wrap
 * @param cacheConfiguration the cache configuration
 * @return the comparator passed if no copy needed, a wrapped comparator otherwise
 */
public static ElementValueComparator wrapIfCopy(final ElementValueComparator comparator, final CacheConfiguration cacheConfiguration) {
    if (isCopyOnReadAndCopyOnWrite(cacheConfiguration)) {
        final ReadWriteCopyStrategy<Element> copyStrategyInstance = cacheConfiguration.getCopyStrategyConfiguration()
            .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
        CopyStrategyHandler copyStrategyHandler = new CopyStrategyHandler(cacheConfiguration.isCopyOnRead(),
            cacheConfiguration.isCopyOnWrite(),
            copyStrategyInstance, cacheConfiguration.getClassLoader());
    }
}
return new CopyingElementValueComparator(comparator, copyStrategyHandler);
}
return comparator;
}

/**
 * An [link net.sf.ehcache.store.ElementValueComparator] which handles copy on read
 */
private static class CopyingElementValueComparator implements ElementValueComparator {

private final ElementValueComparator delegate;
private final CopyStrategyHandler copyStrategyHandler;

public CopyingElementValueComparator(ElementValueComparator delegate, CopyStrategyHandler copyStrategyHandler) {
    this.delegate = delegate;
    this.copyStrategyHandler = copyStrategyHandler;
}

@Override
public boolean equals(Element e1, Element e2) {
    return delegate.equals(copyStrategyHandler.copyElementForReadIfNeeded(e1),
    copyStrategyHandler.copyElementForReadIfNeeded(e2));
}
}

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package net.sf.ehcache.store;

import net.sf.ehcache.Element;
import net.sf.ehcache.config.Searchable;

import java.util.Iterator;
A `BruteForceSource` that wraps another one and deals with copy for read of `Element`s.

* @author ljacomet

```java
class CopyingBruteForceSource implements BruteForceSource {

    private final BruteForceSource delegate;
    private final CopyStrategyHandler copyStrategyHandler;

    CopyingBruteForceSource(BruteForceSource delegate, CopyStrategyHandler copyStrategyHandler) {
        this.delegate = delegate;
        this.copyStrategyHandler = copyStrategyHandler;
    }

    @Override
    public Iterable<Element> elements() {
        return new CopyingIterable(delegate.elements(), copyStrategyHandler);
    }

    @Override
    public Searchable getSearchable() {
        return delegate.getSearchable();
    }

    @Override
    public Element transformForIndexing(Element element) {
        return copyStrategyHandler.copyElementForReadIfNeeded(element);
    }

    private static class CopyingIterable implements Iterable<Element> {
        private final Iterable<Element> elements;
        private final CopyStrategyHandler copyStrategyHandler;
        public CopyingIterable(Iterable<Element> elements, CopyStrategyHandler copyStrategyHandler) {
            this.elements = elements;
            this.copyStrategyHandler = copyStrategyHandler;
        }
    }
}
@Override
public Iterator<Element> iterator() {
    return new CopyingIterator(elements.iterator());
}

/**
* Wrapping Iterator responsible of doing the copy on read
*/
private class CopyingIterator implements Iterator<Element> {
    private final Iterator<Element> delegate;

    public CopyingIterator(Iterator<Element> delegate) {
        this.delegate = delegate;
    }

    @Override
    public boolean hasNext() {
        return delegate.hasNext();
    }

    @Override
    public Element next() {
        return copyStrategyHandler.copyElementForReadIfNeeded(delegate.next());
    }

    @Override
    public void remove() {
        delegate.remove();
    }
    }

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  jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/util/proxy/ProxyObjectOutputStream.java
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  jar/javassist/util/proxy/MethodHandler.java
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jar/javassist/bytecode/annotation/MemberValue.java
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jar/javassist/bytecode/annotation/MemberValueVisitor.java
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jar/javassist/bytecode/annotation/EnumMemberValue.java
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jar/javassist/bytecode/annotation/ClassMemberValue.java
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jar/javassist/bytecode/annotation/BooleanMemberValue.java
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jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
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jar/javassist/bytecode/annotation/IntegerMemberValue.java
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jar/javassist/bytecode/annotation/FloatMemberValue.java
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jar/javassist/bytecode/annotation/DoubleMemberValue.java
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jar/javassist/bytecode/annotation/CharMemberValue.java
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1.331 netty-codec 4.1.48.Final

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jar/io.netty/handler/codec/Headers.java
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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
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 */

/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * <b>lengthFieldOffset</b>   = <b>0</b>
 * <b>lengthFieldLength</b>   = <b>2</b>
 * lengthAdjustment    = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * 
 * BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
 * +--------+----------------+      +--------+----------------+
 * | Length | Actual Content |----->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
 */
Because we can get the length of the content by calling
{@link ByteBuf#readableBytes()}, you might want to strip the length
field by specifying <tt>initialBytesToStrip</tt>. In this example, we
specified <tt>2</tt>, that is same with the length of the length field, to
strip the first two bytes.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = <b>2</b> (= the length of the Length field)
```

```
BEFORE DECODE (14 bytes)   AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
```

```
BEFORE DECODE (14 bytes)   AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
```

In most cases, the length field represents the length of the message body
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
<tt>lengthAdjustment</tt>. Because the length value in this example message
is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
as <tt>lengthAdjustment</tt> for compensation.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = <b>-2</b> (= the length of the Length field)
initialBytesToStrip = 0
```

```
BEFORE DECODE (14 bytes)   AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
```

In most cases, the length field represents the length of the message body
at the end of the header, do not strip header.
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \(<tt>\text{lengthAdjustment}\</tt>\) is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* \(<tt</tt><b>lengthFieldOffset</b><tt</tt>\> = \(<tt</tt><b>2</b><tt</tt>\> (= the length of Header 1)
* \(<tt</tt><b>lengthFieldLength</b><tt</tt>\> = \(<tt</tt><b>3</b><tt</tt>\>
* \(<tt</tt>\text{lengthAdjustment}\> = 0
* \(<tt</tt>\text{initialBytesToStrip}\> = 0
* 
* \(<tt</tt><tt</tt><b>lengthFieldOffset</b><tt</tt><tt</tt>\>   \(<tt</tt><tt</tt><b>lengthFieldLength</b><tt</tt><tt</tt>\>   \(<tt</tt><tt</tt>\text{lengthAdjustment}\>   \(<tt</tt>\text{initialBytesToStrip}\>
* \(<tt</tt>\text{BEFORE DECODE (17 bytes)}\>   \(<tt</tt><tt</tt><tt</tt>\text{AFTER DECODE (17 bytes)}\>
* \(<tt</tt>\text{lengthFieldOffset}\>   \(<tt</tt><tt</tt>\text{lengthFieldLength}\>   \(<tt</tt><tt</tt>\text{lengthAdjustment}\>   \(<tt</tt>\text{initialBytesToStrip}\>
* \(<tt</tt><tt</tt>\text{BEFORE DECODE (17 bytes)}\>   \(<tt</tt><tt</tt><tt</tt>\text{AFTER DECODE (17 bytes)}\>
* \(<tt</tt><tt</tt>\text{lengthFieldOffset}\>   \(<tt</tt><tt</tt>\text{lengthFieldLength}\>   \(<tt</tt><tt</tt>\text{lengthAdjustment}\>   \(<tt</tt>\text{initialBytesToStrip}\>
* \(<tt</tt><tt</tt>\text{BEFORE DECODE (17 bytes)}\>   \(<tt</tt><tt</tt><tt</tt>\text{AFTER DECODE (17 bytes)}\>
* \(<tt</tt><tt</tt>\text{lengthFieldOffset}\>   \(<tt</tt><tt</tt>\text{lengthFieldLength}\>   \(<tt</tt><tt</tt>\text{lengthAdjustment}\>   \(<tt</tt>\text{initialBytesToStrip}\>
* 
* \(<tt</tt><tt</tt><tt</tt>\text{BEFORE DECODE (17 bytes)}\>   \(<tt</tt><tt</tt><tt</tt>\text{AFTER DECODE (17 bytes)}\>
* \(<tt</tt><tt</tt>\text{lengthFieldOffset}\>   \(<tt</tt><tt</tt>\text{lengthFieldLength}\>   \(<tt</tt><tt</tt>\text{lengthAdjustment}\>   \(<tt</tt>\text{initialBytesToStrip}\>
* 
* \(<tt</tt><tt</tt>\text{BEFORE DECODE (17 bytes)}\>   \(<tt</tt><tt</tt><tt</tt>\text{AFTER DECODE (17 bytes)}\>
* \(<tt</tt><tt</tt>\text{lengthFieldOffset}\>   \(<tt</tt><tt</tt>\text{lengthFieldLength}\>   \(<tt</tt><tt</tt>\text{lengthAdjustment}\>   \(<tt</tt>\text{initialBytesToStrip}\>
* 
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive \(<tt>\text{lengthAdjustment}\)</tt> so that the decoder counts the extra
* header into the frame length calculation.
* \(<tt</tt><tt</tt><tt</tt>\text{BEFORE DECODE (17 bytes)}\>   \(<tt</tt><tt</tt><tt</tt>\text{AFTER DECODE (17 bytes)}\>
* \(<tt</tt><tt</tt>\text{lengthFieldOffset}\>   \(<tt</tt><tt</tt>\text{lengthFieldLength}\>   \(<tt</tt><tt</tt>\text{lengthAdjustment}\>   \(<tt</tt>\text{initialBytesToStrip}\>
* 
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the \(<tt>\text{lengthFieldOffset}\)</tt> and the extra
* header affects the \(<tt>\text{lengthAdjustment}\).</tt> We also specified a non-zero
* \(<tt>\text{initialBytesToStrip}\)</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify \(<tt>0</tt></tt> for \(<tt>\text{initialBytesToSkip}\).</tt>
* \(<tt</tt><tt</tt><tt</tt>\text{lengthFieldOffset}\>   \(<tt</tt><tt</tt>\text{lengthFieldLength}\>   \(<tt</tt><tt</tt>\text{lengthAdjustment}\>   \(<tt</tt>\text{initialBytesToStrip}\>
lengthFieldLength = 2  
lengthAdjustment = 1 (= the length of HDR2)  
initialBytesToStrip = 3 (= the length of HDR1 + LEN)

BEFORE DECODE (16 bytes)                     AFTER DECODE (13 bytes)
+---------------+--------+---------------+      +---------------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+---------------+--------+---------------+      +---------------+----------------+

2 bytes length field at offset 1 in the middle of 4 bytes header,
strip the first header field and the length field, the length field
represents the length of the whole message

Let's give another twist to the previous example. The only difference from
the previous example is that the length field represents the length of the
whole message instead of the message body, just like the third example.
We have to count the length of HDR1 and Length into lengthAdjustment.
Please note that we don't need to take the length of HDR2 into account
because the length field already includes the whole header length.

lengthFieldOffset = 1  
lengthFieldLength = 2  
lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)  
initialBytesToStrip = 3

BEFORE DECODE (16 bytes)                     AFTER DECODE (13 bytes)
+---------------+--------+---------------+      +---------------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+---------------+--------+---------------+      +---------------+----------------+

@see LengthFieldPrepender

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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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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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d) 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.

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

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

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 * $Revision: 1.2 $
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/*
 * $Revision: 1.2 $
 * $Date: 2002/06/06 09:37:26 $
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* $Revision: 1.11 $
* $Date: 2002/09/19 22:59:43 $
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  jar/org/apache/commons/cli/CommandLineParser.java
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/ *
* $Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/Options.java,v 1.5
  2002/06/06 22:32:37 bayard Exp $
* $Revision: 1.5 $
* $Date: 2002/06/06 22:32:37 $
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 * $Date: 2002/06/06 22:50:14 $
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* $Id: Option.java,v 1.6 2002/06/06 22:50:14 bayard Exp $*
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* /opt/cola/permits/1136279811_1613727097.48/0/commons-cli-1-0-sources-1-
  jar/org/apache/commons/cli/Option.java
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/*
 * $Header: /home/cvs/jakarta-commons-
  sandbox/cli/src/java/org/apache/commons/cli/UnrecognizedOptionException.java,v 1.2 2002/06/06 09:37:26
  jstrachan Exp $ 
 * $Revision: 1.2 $ 
 * $Date: 2002/06/06 09:37:26 $ 
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  jar/org/apache/commons/cli/UnrecognizedOptionException.java

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22:59:43 jkeyes Exp $ */
* $Revision: 1.3 $
* $Date: 2002/09/19 22:59:43 $
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* $Revision: 1.2 $
* $Date: 2002/06/06 22:49:36 $
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*/

Found in path(s):
* /opt/cola/permits/1136279811_1613727097.48/0/commons-cli-1-0-sources-1.jar/org/apache/commons/cli/TypeHandler.java

---

1.343 jboss-metadata-ejb 10.0.0.Final

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requiredElements = EnumSet.of(Element.INTEGRITY, Element.CONFIDENTIALITY, case CONFIDENTIALITY: 
    transportConfig.setConfidentiality(getElementText(reader, propertyReplacer));
    CONFIDENTIALITY("confidentiality");

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CONFIDENTIALITY: public static final String CONFIDENTIALITY_NONE = "NONE";
CONFIDENTIALITY_SUPPORTED = "SUPPORTED";
CONFIDENTIALITY_REQUIRED = "REQUIRED";

CONFIDENTIALITY != CONFIDENTIALITY_NONE; Get the confidentiality.
public String getConfidentiality() { return confidentiality; } Set the confidentiality.
public void setConfidentiality(String confidentiality) { if (confidentiality == null) throw new IllegalArgumentException("Null confidentiality");
if (CONFIDENTIALITY_NONE.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_NONE;
else if (CONFIDENTIALITY_SUPPORTED.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_SUPPORTED;
else if (CONFIDENTIALITY_REQUIRED.equalsIgnoreCase(confidentiality))
    throw new IllegalArgumentException("Unknown transport confidentiality: "+ confidentiality);

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indicates if the server (target) supports privacy protected messages. The values are <xs:attribute name="confidentiality" type="xs:string" use="required"/>

1.344 junit-platform-engine 1.5.2
1.344.1 Available under license :
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1.345 libxkbfile 1.0.9 3.el7

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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
========

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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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.

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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 M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides 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 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) 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

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:
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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

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 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/news.answers/jpeg-faq/.

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RELATED SOFTWARE
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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
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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
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
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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.
1.347 reflections 0.9.11

1.348 javax-persistence-api 2.2

1.348.1 Available under license:

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1.349 joda-time 2.10.3

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1.350 elasticsearch-core 6.4.3

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1.352 bouncycastle-fips 1.0.3
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 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
Known suffixes is a list of public domain suffixes that can't be used as wild cards for
example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
If *.com is in the known suffixes list will not be allowed to match.

@param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }

1.353 cyrus-sasl 2.1.26 23.el7

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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 */
/**
 * A {link WebApplicationContext} that can be used to bootstrap itself from a contained
 * {link ServletWebServerFactory} bean.
 * <p>
 * This context will create, initialize and run an {link WebServer} by searching for a
 * single {link ServletWebServerFactory} bean within the {link ApplicationContext}
 * itself. The {link ServletWebServerFactory} is free to use standard Spring concepts
 * (such as dependency injection, lifecycle callbacks and property placeholder variables).
 * <p>
 * In addition, any {link Servlet} or {link Filter} beans defined in the context will be
 * automatically registered with the web server. In the case of a single Servlet bean, the
 * '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
 * name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
 * always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
 * <p>
 * For more advanced configuration, the context can instead define beans that implement
 * the {link ServletContextInitializer} interface (most often
 * {link ServletRegistrationBean}s and/or {link FilterRegistrationBean}s). To prevent
 * double registration, the use of {link ServletContextInitializer} beans will disable
 * automatic Servlet and Filter bean registration.
* <p>
* Although this context can be used directly, most developers should consider using the
* [@link AnnotationConfigServletWebServerApplicationContext] or
* [@link XmlServletWebServerApplicationContext] variants.
* 
* @author Phillip Webb
* @author Dave Syer
* @author Scott Frederick
* @since 2.0.0
* @see AnnotationConfigServletWebServerApplicationContext
* @see XmlServletWebServerApplicationContext
* @see ServletWebServerFactory
*/

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* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1.jar/org/apache/maven/doxia/module/confluence/parser/table/TableCellBlock.java
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* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/util/LineBreaker.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/module/rtf/RtfSink.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/parser/manager/ParserNotFoundException.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/module/confluence/parser/list/BulletedListBlock.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/module/apt/AptReaderSource.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/module/confluence/parser/BlockParser.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/DefaultDoxia.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/module/fml/FmlParser.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/module/confluence/parser/list/BulletedListBlock.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/module/apt/AptReaderSource.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/module/confluence/parser/BlockParser.java
* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/DefaultDoxia.java
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* /opt/cola/permits/1150251486_1627682360.91/0/doxia-core-1-0-alpha-7-sources-1.jar/org/apache/maven/doxia/module/confluence/parser/list/TreeComponent.java

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* /opt/cola/permits/1135892437_1613626879.4/0/spring-web-5-2-10-release-sources-
jar/org/springframework/web/context/request/RequestScope.java
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jar/org/springframework/web/bind/annotation/PostMapping.java
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jar/org/springframework/web/bind/annotation/RequestParam.java
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jar/org/springframework/http/ClientHttpRequestExecution.java
* /opt/cola/permits/1135892437_1613626879.4/0/spring-web-5-2-10-release-sources-
jar/org/springframework/http/ClientHttpRequestFactory.java

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# This file maps Internet media types to unique file extension(s).
Although created for httpd, this file is used by many software systems and has been placed in the public domain for unlimited redistribution.

The table below contains both registered and (common) unregistered types. A type that has no unique extension can be ignored -- they are listed here to guide configurations toward known types and to make it easier to identify "new" types. File extensions are also commonly used to indicate content languages and encodings, so choose them carefully.

Internet media types should be registered as described in RFC 4288. The registry is at <https://www.iana.org/assignments/media-types/>.

This file was retrieved from https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co

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<tr>
<td>application/3gpp-ims+xml</td>
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<td>application/a2l</td>
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<tr>
<td>application/activemessage</td>
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<tr>
<td>application/alto-costmap+json</td>
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<tr>
<td>application/alto-costmapfilter+json</td>
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<tr>
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<td>application/beep+xml</td>
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# application/nlsml+xml
# application/nss
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# application/ocsp-response
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# application/odx
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application/x-dtbx-db
application/x-dtbresource+xml
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# audio/vnd.cns.anp1
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audio/vnd.digital-windseol
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jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
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* /opt/cola/permits/1135892437_1613626879.4/0/spring-web-5-2-10-release-sources-
jar/http/server/reactive/JettyHeadersAdapter.java
* /opt/cola/permits/1135892437_1613626879.4/0/spring-web-5-2-10-release-sources-
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* /opt/cola/permits/1135892437_1613626879.4/0/spring-web-5-2-10-release-sources-
jar/http/client/Netty4ClientHttpRequest.java
* /opt/cola/permits/1135892437_1613626879.4/0/spring-web-5-2-10-release-sources-
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* /opt/cola/permits/1135892437_1613626879.4/0/spring-web-5-2-10-release-sources-
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* /opt/cola/permits/1135892437_1613626879.4/0/spring-web-5-2-10-release-sources-
jar/http/server/reactive/HttpHandler.java
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  */opt/cola/permits/1135892437_1613626879.4/0/spring-web-5-2-10-release-sources.jar/org/springframework/http/converter/HttpMessageConverter.java
  */opt/cola/permits/1135892437_1613626879.4/0/spring-web-5-2-10-release-sources.jar/org/springframework/http/server/reactive/UndertowServerHttpRequest.java
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  jar/org/springframework/web/server/handler/WebHandlerDecorator.java
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  jar/org/springframework/web/method/annotation/RequestParamMethodArgumentResolver.java
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 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See {@link WebSession}
 * for more details.
 */

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1.360 libjpeg-turbo 1.2.90 8.el7

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The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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,
rjpcom, and wrjpcom.
*.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
========

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,
ltdconfig, ltdmain.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
==========

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 M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides 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 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) 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%

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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/.

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

RELATED SOFTWARE
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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.

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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
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.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from
http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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mecab-ipadic-2.7.0-20070801 Notice
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Nori Korean Morphological Analyzer - Apache Lucene Integration
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mecab-ko-dic-2.0.3-20170922

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https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

1.364 jtb 1.3.2
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  */opt/cola/permits/1150251194_1627682059.14/0/jtb-1-3-2-sources-jar/EDU/purdue/jtb/visitor/GJDepthFirst.java
  */opt/cola/permits/1150251194_1627682059.14/0/jtb-1-3-2-sources-jar/EDU/purdue/jtb/visitor/GJNoArguVisitor.java
  */opt/cola/permits/1150251194_1627682059.14/0/jtb-1-3-2-sources-jar/EDU/purdue/jtb/visitor/Visitor.java
  */opt/cola/permits/1150251194_1627682059.14/0/jtb-1-3-2-sources-jar/EDU/purdue/jtb/visitor/GJVoidDepthFirst.java
  */opt/cola/permits/1150251194_1627682059.14/0/jtb-1-3-2-sources-jar/EDU/purdue/jtb/visitor/DepthFirstVisitor.java
  */opt/cola/permits/1150251194_1627682059.14/0/jtb-1-3-2-sources-jar/EDU/purdue/jtb/visitor/GJNoArguDepthFirst.java
  */opt/cola/permits/1150251194_1627682059.14/0/jtb-1-3-2-sources-jar/EDU/purdue/jtb/visitor/GJVisitor.java
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* /opt/cola/permits/1150251194_1627682059.14/0/jtb-1-3-2-sources-jar/EDU/purdue/jtb/misc/OldFileGenerator.java
* /opt/cola/permits/1150251194_1627682059.14/0/jtb-1-3-2-sources
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//
// Java Tree Builder (JTB) Grammar
//
// Converted from the JavaCC 0.6 grammar in the documentation.
// Appended to the Java1.1.jj grammar provided in JavaCC.
//
// AUTHOR: Kevin Tao, taokr@cs.purdue.edu
//
// This grammar is basically the JavaCC grammar, adapted from the
// documentation. A few changes have been made to fix possible bugs in the
// grammar.
//
/**
*
* Copyright (C) 1996, 1997 Sun Microsystems Inc.
options {
    JAVA_UNICODE_ESCAPE = true;
}

PARSER_BEGIN(JTBParser)

package EDU.purdue.jtb.parser;
import EDU.purdue.jtb.misc.UnicodeConverter;

public class JTBParser {}

PARSER_END(JTBParser)

SKIP : /* WHITE SPACE */
{
    " 
    | "\t"
    | "\n"
    | "\r"
    | "\f"
}

SPECIAL_TOKEN : /* COMMENTS */
{
    <SINGLE_LINE_COMMENT: "//" (~\["\n","\r"])* (\"\n\"|\"\r\")>
    | <FORMAL_COMMENT: "/**" (~\["*"\])* "*" ("*" | (~\["*","/"\] (~\["*"\])* "*"))"*/">
    | <MULTI_LINE_COMMENT: "/*" (~\["*"\])* "*" ("*" | (~\["*","/"\] (~\["*"\])* "*"))"*/">
}

TOKEN : /* RESERVED WORDS AND LITERALS */
{
    < ABSTRACT: "abstract" >
< WHILE: "while" >
}

TOKEN: /* LITERALS */
{
  < INTEGER_LITERAL:
    <DECIMAL_LITERAL> (["1","L"])?
    | <HEX_LITERAL> (["1","L"])?
    | <OCTAL_LITERAL> (["1","L"])?
  >
  | < #DECIMAL_LITERAL: ["1","-9"] (["0","-9"])> >
  |
  < #HEX_LITERAL: "0" ["x","X"] (["0","-9","a","-f","A","-F"])+ >
  |
  < #OCTAL_LITERAL: "0" (["0","-7"]) >
  |
  < FLOATING_POINT_LITERAL:
    (["0","-9"])+ \. (["0","-9"]) (<EXPONENT>)? (["f","F","d","D"])?
    | \. (["0","-9"]) (<EXPONENT>)? (["f","F","d","D"])?
    | (["0","-9"])+ <EXPONENT> (["f","F","d","D"])?
    | (["0","-9"]) (<EXPONENT>)? (["f","F","d","D"])?
  >
  |
  < #EXPONENT: ["e","E"] (["+","-"])? (["0","-9"])+ >
  |
  < CHARACTER_LITERAL:
    ""
    ( ["\n","\r","\t","\'","\",","\"]
      | \"
        ( ["n","r","b","t","f","\w","\n","\r"]
          | ["0","-7"] ( ["0","-7"] )?
          | ["0","-3"] ["0","-7"] ["0","-7"]
        )
      )
    )
  ""
  >
  |
  // Code to convert a unicode character back into escape sequence
  matchedToken.image = UnicodeConverter.convertString(image.toString());
}

< STRING_LITERAL:
  ""
  ( ["\n","\r","\t","\'","\",","\"]
    | \"
      ( ["n","r","b","t","f","\w","\n","\r"]
        | ["0","-7"] ( ["0","-7"] )?
  )
["0"-"3"] ["0"-"7"] ["0"-"7"]
)
)
)*
"v"
>
// Code to convert a unicode character back into escape sequence
matchedToken.image = UnicodeConverter.convertString(image.toString());
}
}

TOKEN : /* IDENTIFIERS */
{
//**DEFFERED until after JAVACC keywords
// < IDENTIFIER: <LETTER> (<LETTER>|<DIGIT>)* >
//

< #LETTER:
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"\u0e50"-"\u0e59",
"\u0ed0"-"\u0ed9",
"\u1040"-"\u1049"
]
>
}

TOKEN : /* SEPARATORS */
{
< LPAREN: "(" >
| < RPAREN: ")" >
| < LBRACE: "{" >
| < RBRACE: "}" >
| < LBRACKET: "[" >
| < RBRACKET: "]" >
| < SEMICOLON: ";" >
| < COMMA: "," >
| < DOT: "." >
}

TOKEN : /* OPERATORS */
{
< ASSIGN: "=" >
| < GT: ""> >
| < LT: "<" >
| < BANG: "!" >
| < TILDE: "~" >
| < HOOK: "?" >
| < COLON: ":" >
| < EQ: "==" >
| < LE: "<=" >
| < GE: ">=" >
| < NE: "!=" >
| < SC_OR: "||" >
| < SC_AND: "&&" >
| < INCR: "++" >
| < DECR: "--" >
| < PLUS: "+" >
| < MINUS: "-" >
| < STAR: "*" >
| < SLASH: "/" >
| < BIT_AND: "&" >
| < BIT_OR: "|" >
| < XOR: "^" >
| < REM: "%" >
| < LSHIFT: "<<" >
| < RSIGNEDSHIFT: ">>>" >
| < RUNSIGNEDSHIFT: ">>>>" >
---

/*
* Program structuring syntax follows.
*/

void CompilationUnit() :
{ }
{
[ PackageDeclaration() ]
( ImportDeclaration() )* 
( TypeDeclaration() )* 
// <EOF>/***removed for javacc
}

void PackageDeclaration() :
{ }
{
"package" Name() ";;"
}

void ImportDeclaration() :
{ }
{
"import" Name() [ "." "*" ] ";;"
}

void TypeDeclaration() :
{ }
{
LOOKAHEAD( "abstract" | "final" | "public" )* "class"
ClassDeclaration()
/*
 * Declaration syntax follows.
 */

void ClassDeclaration() :
{
{
( "abstract" | "final" | "public" )*
UnmodifiedClassDeclaration()
}

void UnmodifiedClassDeclaration() :
{
{
        "class" <IDENTIFIER> [ "extends" Name() ] [ "implements" NameList() ]
ClassBody()
}

void ClassBody() :
{
{
"{" ( ClassBodyDeclaration() )* "" ]"" }
}

void NestedClassDeclaration() :
{
{
( "static" | "abstract" | "final" | "public" | "protected" | "private" )*
UnmodifiedClassDeclaration()
}

void ClassBodyDeclaration() :
{
{
LOOKAHEAD(2)
Initializer()
| LOOKAHEAD( ( "static" | "abstract" | "final" | "public" | "protected" | "private" )* "class" )
NestedClassDeclaration()
| LOOKAHEAD( ( "static" | "abstract" | "final" | "public" | "protected" | "private" )* "interface" )
NestedInterfaceDeclaration()
|
LOOKAHEAD( [ "public" | "protected" | "private" ] Name() "(" )
ConstructorDeclaration()
|
LOOKAHEAD( MethodDeclarationLookahead() )
MethodDeclaration()
|
FieldDeclaration()
|

// This production is to determine lookahead only.
void MethodDeclarationLookahead() :
{};
{}
( "public" | "protected" | "private" | "static" | "abstract" | "final" | "native" | "synchronized" )*
ResultType() <IDENTIFIER> "(" 
}

void InterfaceDeclaration() :
{};
{}
( "abstract" | "public" )* 
UnmodifiedInterfaceDeclaration()
}

void NestedInterfaceDeclaration() :
{};
{}
( "static" | "abstract" | "final" | "public" | "protected" | "private" )*
UnmodifiedInterfaceDeclaration()
}

void UnmodifiedInterfaceDeclaration() :
{};
{}
"interface" <IDENTIFIER> [ "extends" NameList() ]
"{" ( InterfaceMemberDeclaration() )* ""}"
}

void InterfaceMemberDeclaration() :
{};
{}
LOOKAHEAD( ( "static" | "abstract" | "final" | "public" | "protected" | "private" )* "class" )
NestedClassDeclaration()
|
LOOKAHEAD( ( "static" | "abstract" | "final" | "public" | "protected" | "private" )* "interface" )
NestedInterfaceDeclaration()
void FieldDeclaration() :
{
{
( "public" | "protected" | "private" | "static" | "final" | "transient" | "volatile" )*
Type() VariableDeclarator() ( "," VariableDeclarator() )* ";"
}
void VariableDeclarator() :
{
{
VariableDeclaratorId() [ "=" VariableInitializer() ]
}
void VariableDeclaratorId() :
{
{
<IDENTIFIER> ( "[" "]" )*
}
void VariableInitializer() :
{
{
ArrayInitializer()
| Expression()
}
void ArrayInitializer() :
{
{
"{" [ VariableInitializer() ( LOOKAHEAD(2) "," VariableInitializer() )* ] [ "," ]}"}
void MethodDeclaration() :
{
{
( "public" | "protected" | "private" | "static" | "abstract" | "final" | "native" | "synchronized" )* ResultType() MethodDeclarator() [ "throws" NameList() ]
( Block() | ";" )
}
void MethodDeclarator() :
{
}

<IDENTIFIER> FormalParameters() ( "[ ]" )*

void FormalParameters() :
{
}

"(" [ FormalParameter() ( "," FormalParameter() )* ] ")"

void FormalParameter() :
{
[ "final" ] Type() VariableDeclaratorId()
}

void ConstructorDeclaration() :
{
}

[ "public" | "protected" | "private" ]
<IDENTIFIER> FormalParameters() [ "throws" NameList() ]
"{"
[ LOOKAHEAD(ExplicitConstructorInvocation()) ExplicitConstructorInvocation() ]
( BlockStatement() )* "}"

void ExplicitConstructorInvocation() :
{
LOOKAHEAD("this" Arguments() ";")
"this" Arguments() ";;"
| [ LOOKAHEAD(2) PrimaryExpression() "," ] "super" Arguments() ";;"
}

void Initializer() :
{
}

[ "static" ] Block()

/*
 * Type, name and expression syntax follows.
 */
void Type() :
{
{
 ( PrimitiveType() | Name() ) ( [ ] )
}
}

void PrimitiveType() :
{
{
 "boolean"
 | 
 "char"
 | 
 "byte"
 | 
 "short"
 | 
 "int"
 | 
 "long"
 | 
 "float"
 | 
 "double"
 }

void ResultType() :
{
{
 "void"
 | 
 Type()
 }
}

void Name() :
/*
 * A lookahead of 2 is required below since "Name" can be followed
 * by a "." when used in the context of an "ImportDeclaration".
 */
{
{
<IDENTIFIER>
 ( LOOKAHEAD(2) "." <IDENTIFIER>
 )
}

void NameList() :

{ }
{
    Name()
    ( "\," Name()
     )* 
}

/*
* Expression syntax follows.
*/

void Expression() :
{ }
{
    LOOKAHEAD( PrimaryExpression() AssignmentOperator() )
    Assignment()
    |
    ConditionalExpression()
}

void Assignment() :
{ }
{
    PrimaryExpression() AssignmentOperator() Expression()
}

void AssignmentOperator() :
{ }
{
    "=" | "\*=" | "/=\" | "\%=" | "\+=" | "\-=" | "\+=\" | "\-=\" | "\+=\" | "\-=\" | "\|=\" | "\|=" | "\|=\"
}

void ConditionalExpression() :
{ }
{
    ConditionalOrExpression() [ "?" Expression() ":" ConditionalExpression() ]
}

void ConditionalOrExpression() :
{ }
{
    ConditionalAndExpression() [ "\&\&" ConditionalAndExpression() ]
}

void ConditionalAndExpression() :
{ }
{
    ConditionalAndExpression() [ "\|\|" ConditionalAndExpression() ]
}

void ConditionalAndExpression() :
{ }
{
InclusiveOrExpression() ( "&&" InclusiveOrExpression() )* 
}

void InclusiveOrExpression() : 
{ 
} 
ExclusiveOrExpression() ( "||" ExclusiveOrExpression() )* 
}

void ExclusiveOrExpression() : 
{ 
} 
AndExpression() ( "^" AndExpression() )* 
}

void AndExpression() : 
{ 
} 
EqualityExpression() ( "&" EqualityExpression() )* 
}

void EqualityExpression() : 
{ 
} 
InstanceOfExpression() ( ( "==" | "!=" ) InstanceOfExpression() )* 
}

void InstanceOfExpression() : 
{ 
} 
RelationalExpression() [ "instanceof" Type() ]
}

void RelationalExpression() : 
{ 
} 
ShiftExpression() ( ( "<" | "">" | "<=" | ">=" ) ShiftExpression() )* 
}

void ShiftExpression() : 
{ 
} 
AdditiveExpression() ( ( "<<" | ">>" | "<<<" ) AdditiveExpression() )* 
}

void AdditiveExpression() : 
{ 
}
MultiplicativeExpression() ( ( "+" | "-" ) MultiplicativeExpression() )*

void MultiplicativeExpression()
{
    
    UnaryExpression() ( ( "*" | "/" | "%" ) UnaryExpression() )*

}

void UnaryExpression()
{
    
    ( "+" | "-" ) UnaryExpression()
    | 
    PreIncrementExpression()
    | 
    PreDecrementExpression()
    | 
    UnaryExpressionNotPlusMinus()

}

void PreIncrementExpression()
{

    
    "++" PrimaryExpression()

}

void PreDecrementExpression()
{

    
    "--" PrimaryExpression()

}

void UnaryExpressionNotPlusMinus()
{
    
    ( "~" | "!" ) UnaryExpression()
    | 
    LOOKAHEAD( CastLookahead() )
    CastExpression()
    | 
    PostfixExpression()

}

// This production is to determine lookahead only. The LOOKAHEAD specifications
// below are not used, but they are there just to indicate that we know about
// this.
void CastLookahead() :


{}  
{}  
  LOOKAHEAD(2)  
  
  "(" PrimitiveType()  
  |  
  LOOKAHEAD("(" Name() ")")  
  "(" Name() "][" "])"  
  |  
  "(" Name() ")" ( "~" | "!" | "(" | <IDENTIFIER> | "this" | "super" | "new" | Literal() ) 
{}  
{}  
{}  
{}  
{}  
{}  
{}  
{}  
{}  
{}  
{}  
{}  
{}  

void PrimarySuffix() :
{
 |
 LOOKAHEAD(2)
 ". " "this"
 |
 LOOKAHEAD(2)
 ". " "class"
 |
 LOOKAHEAD(2)
 ". " AllocationExpression()
 |
 [" Expression ()"]
 |
 ". " <IDENTIFIER>
 |
 Arguments()
 }

void Literal() :
{
 |
 <INTEGER_LITERAL>
 |
 <FLOATING_POINT_LITERAL>
 |
 <CHARACTER_LITERAL>
 |
 <STRING_LITERAL>
 |
 BooleanLiteral()
 |
 NullLiteral()
 }

void BooleanLiteral() :
{
 |
 |
 "true"
 |
 "false"
 |
 |
 void NullLiteral() :
{
 |
 |
 "null"
 |
void Arguments() :
{
{
  "(" [ ArgumentList() ] ")"
}
}

void ArgumentList() :
{
{
  Expression() ( "," Expression() )*  
}
}

void AllocationExpression() :
{
{
  LOOKAHEAD(2)  
  "new" PrimitiveType() ArrayDimensions() [ ArrayInitializer() ]  
  |  
  "new" Name()  
  (  
    ArrayDimensions() [ ArrayInitializer() ]  
    |  
    Arguments() [ ClassBody() ]  
  )  
}
}

/*  
* The second LOOKAHEAD specification below is to parse to PrimarySuffix  
* if there is an expression between the "[...]".  
*/
void ArrayDimensions() :
{
{
  ( LOOKAHEAD(2) "[" Expression() "]" )+ ( LOOKAHEAD(2) "[" "]" )*  
}
}

/*  
* Statement syntax follows.  
*/
void Statement() :
{
{
  LOOKAHEAD(2)  
  LabeledStatement()
}
void LabeledStatement() :
{}
{
<IDENTIFIER> ":" Statement()
}

void Block() :
{};
{
"{" ( BlockStatement() )* "}"
}

void BlockStatement() :
{};
{
LOOKAHEAD([ "final" ] Type() <IDENTIFIER>)
LocalVariableDeclaration() ";"
Statement()  
  |  
  UnmodifiedClassDeclaration()  
}  

void LocalVariableDeclaration() :  
{  
{  
[ "final" ] Type() VariableDeclarator() ( "," VariableDeclarator() )*  
}  

void EmptyStatement() :  
{  
{  
";"  
}  

void StatementExpression() :  
/*  
* The last expansion of this production accepts more than the legal  
* Java expansions for StatementExpression.  
*/  
{  
{  
PreIncrementExpression()  
|  
PreDecrementExpression()  
|  
LOOKAHEAD( PrimaryExpression() AssignmentOperator() )  
Assignment()  
|  
PostfixExpression()  
}  

void SwitchStatement() :  
{  
{  
"switch" "(" Expression() ")" "{"  
( SwitchLabel() ( BlockStatement() )* )*  
"}"  
}  

void SwitchLabel() :  
{  
{  
"case" Expression() ":"  
|  
"default" ":"
void IfStatement() :

/*
 * The disambiguating algorithm of JavaCC automatically binds dangling
 * else's to the innermost if statement. The LOOKAHEAD specification
 * is to tell JavaCC that we know what we are doing.
 */
{
  "if" "(" Expression() ")" Statement() [ LOOKAHEAD(1) "else" Statement() ]
}

void WhileStatement() :
{
  "while" "(" Expression() ")" Statement()
}

void DoStatement() :
{
  "do" Statement() "while" "(" Expression() ")" ";"
}

void ForStatement() :
{
  "for" "(" [ ForInit() ] ";" [ Expression() "]" ";" [ ForUpdate() ] ")" Statement()
}

void ForInit() :
{
  LOOKAHEAD([ "final" ] Type <IDENTIFIER> )
  LocalVariableDeclaration()
  |
  StatementExpressionList()
}

void StatementExpressionList() :
{
  StatementExpression() ( "," StatementExpression() )*
}

void ForUpdate() :
{
}
StatementExpressionList()

void BreakStatement() :
{}  
{  
"break" [ <IDENTIFIER> ] ";"  
}

void ContinueStatement() :
{}  
{  
"continue" [ <IDENTIFIER> ] ";"  
}

void ReturnStatement() :
{}  
{  
"return" [ Expression() ] ";"  
}

void ThrowStatement() :
{}  
{  
"throw" Expression() ";"  
}

void SynchronizedStatement() :
{}  
{  
"synchronized" "(" Expression() ")" Block()  
}

void TryStatement() :
/*  
* Semantic check required here to make sure that at least one  
* finally/catch is present.  
*/  
{}  
{  
"try" Block()  
( "catch" "(" FormalParameter() ")" Block() )*  
[ "finally" Block() ]  
}  

/**************************************************************************/
* JavaCC tokens start here
***********************************************************************

TOKEN :      // Reserved words
{
   <EOF_TK:    "EOF">
| <IGNORE_CASE_TK: "IGNORE_CASE">
| <JAVACODE_TK: "JAVACODE">
| <LOOKAHEAD_TK: "LOOKAHEAD">
| <MORE_TK:    "MORE">
| <OPTIONS_TK: "options">
| <PARSER_BEGIN_TK: "PARSER_BEGIN">
| <PARSER_END_TK: "PARSER_END">
| <SKIP_TK:    "SKIP">
| <SPECIAL_TOKEN_TK: "SPECIAL_TOKEN">
| <TOKEN_TK:   "TOKEN">
| <TOKEN_MGR_DECLS_TK: "TOKEN_MGR_DECLS">
}

TOKEN :     // Moved here from Java grammar
{
   < IDENTIFIER: <LETTER> (<LETTER>|<DIGIT>)* >
}

TOKEN :
{
   <POUND: "#">
}

 /*************************************************************************
 * JavaCC grammar starts here
***************************************************************************/

void JavaCCInput() :
{
}
{
   JavaCCOptions()
   <PARSER_BEGIN_TK> <LPAREN> <IDENTIFIER> <RPAREN>
   CompilationUnit()
   <PARSER_END_TK> <LPAREN> <IDENTIFIER> <RPAREN>
   ( Production() )*  
   <EOF>
}

void JavaCCOptions() :
{
}
{
   [ <OPTIONS_TK> <LBRACE> ( OptionBinding() )* <RBRACE> ]
}
void OptionBinding() :
{
/* Changed for JTB 1.1 */
   LOOKAHEAD(3) <IDENTIFIER> <ASSIGN> <INTEGER_LITERAL> <SEMICOLON>
| <IDENTIFIER> <ASSIGN> BooleanLiteral() <SEMICOLON>
*/
  ( <IDENTIFIER> | <LOOKAHEAD_TK> | <IGNORE_CASE_TK> | <STATIC> ) <ASSIGN>
  ( <INTEGER_LITERAL> | BooleanLiteral() | <STRING_LITERAL> ) <SEMICOLON>
} void Production() :
{
  JavaCodeProduction()
| RegularExprProduction()
| BNFProduction()
| TokenManagerDecls()
} void JavaCodeProduction() :
{
  
  <JAVACODE_TK>
  ResultType() <IDENTIFIER> FormalParameters()// this already has parens in it
  Block()
} void BNFProduction() :
{
  
  ResultType() <IDENTIFIER> FormalParameters() <COLON>
  
  "{" (BlockStatement())* "}
  <LBRACE> ExpansionChoices() <RBRACE>
} void RegularExprProduction() :
{
  
  [ LexicalStateList() ]
  RegExprKind() [ <LBRACKET> <IGNORE_CASE_TK> <RBRACKET> ] <COLON>
  <LBRACE> RegExprSpec() ( <BIT_OR> RegExprSpec() )* <RBRACE>
} void TokenManagerDecls() :
{
}
void LexicalStateList() :
{
    
    LOOKAHEAD(2)
    <LT> <STAR> <GT>
    | <LT> <IDENTIFIER> ( <COMMA> <IDENTIFIER> )* <GT>

void RegExprKind() :
{
    
    <TOKEN_TK>
    | <SPECIAL_TOKEN_TK>
    | <SKIP_TK>
    | <MORE_TK>
}

void RegExprSpec() :
{
    
    RegularExpression() [ Block() ] [ <COLON> <IDENTIFIER> ]
}

void ExpansionChoices() :
{
    
    Expansion() ( <BIT_OR> Expansion() )* 
}

void Expansion() :
{
    
    ( LOOKAHEAD(ExpansionUnit()) ExpansionUnit() )* 
}

void ExpansionUnit() :
{
    
    LocalLookahead()
    |
    Block()
    |
    LOOKAHEAD(3) <LPAREN> ExpansionChoices() <RPAREN>
    [ <PLUS> | <STAR> | <HOOK> ]

void ExpansionUnitTerm() :
{
    RegularExpression()
    | <IDENTIFIER> Arguments()
}

void LocalLookahead() :
{
    {
        <LOOKAHEAD_TK> <LPAREN> [ LOOKAHEAD(2) <INTEGER_LITERAL> ] [ LOOKAHEAD(2) <COMMA> ]
        ExpansionChoices() [ <COMMA> ] [ <LBRACE> Expression() <RBRACE> ]
        <RPAREN>
    }
}

void RegularExpression() :
{
    {
        <STRING_LITERAL>
        | LOOKAHEAD(3) <LT> [ [ <POUND> ] <IDENTIFIER> <COLON> ]
        ComplexRegularExpressionChoices() <GT>
        | LOOKAHEAD(2) <LT> <IDENTIFIER> <GT>
        | <LT> <EOF_TK> <GT>
    }
}

void ComplexRegularExpressionChoices() :
{
    {
        ComplexRegularExpression() ( <BIT_OR> ComplexRegularExpression() )*'
    }
}

void ComplexRegularExpression() :
{
    {
        ( ComplexRegularExpressionUnit() )*'
    }
}

void ComplexRegularExpressionUnit() :
{
    {
        <STRING_LITERAL>
void CharacterList() :
{
{
[ <TILDE> ] <LBRACKET> [ CharacterDescriptor() ( <COMMA>
CharacterDescriptor() )* ] <RBRACKET>
}

void CharacterDescriptor() :
{
{
<STRING_LITERAL> [ <MINUS> <STRING_LITERAL> ]
}

Found in path(s):
* /opt/cola/permits/1150251194_1627682059.14/0/jtb-1-3-2-sources-jar/EDU/purdue/jtb/jtbgram.jj

1.365 nghttp2 1.35.1

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  jar/springfox/documentation/builders/RequestHandlerSelectors.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
  jar/springfox/documentation/RequestHandler.java

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jar/springfox/documentation/RequestHandlerKey.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/service/Header.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/LoginEndpoint.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/LoginEndpointBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Contact.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/StringVendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/Cacheable.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AuthorizationCodeGrantBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiInfo.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/OperationNameGenerator.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiListingReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableValues.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/ApiIgnore.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AuthorizationScopeBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRule.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/TokenRequestEndpointBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/
jar/springfox/documentation/spring/wrapper/PatternsRequestCondition.java

* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/builders/AlternateTypePropertyBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/builders/AlternateTypeBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/service/Server.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/service/DocumentationReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/service/ServerVariable.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceGroup.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Enums.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/SecurityReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/OperationBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Tag.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ResourceListingBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiListing.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/WildcardType.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ObjectVendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Operation.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ApiListingBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResolvedMethodParameter.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ModelPropertyBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiDescription.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/BuilderDefaults.java
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  jar/org/reactivestreams/Subscriber.java
* /opt/ws_local/PERMITS_SQL/1092915250_1600810885.15/0/reactive-streams-1-0-2-sources-1-
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SQLFile processor v. \%{1}.

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\? lists Special Commands.
:? lists Edit-Buffer/History commands.
:* lists PL commands.
/? displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with `\` and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with `:` and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with `*` and end when you hit ENTER.
MACRO executions and definitions begin with `/` and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted `;` (which executes the statement), or a blank line (which moves the statement into the edit buffer without executing).

After turning on variable expansion with command `"*"` (or any other PL command), PL variables may be used in most commands like so: `*{PLVARNAME}`.

Be aware when using regular expressions on commands, that the regexs operate only on the command text after the * or \ prefix, if any.

Found in path(s):
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/cmdline/sqltool/SqlFile.banner.text

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* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/navigator/RowSetNavigatorData.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/SchemaObject.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/BlockObjectStore.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/types/CharacterType.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/index/IndexStats.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/lib/DoubleIntIndex.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/scriptio/ScriptReaderText.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/Session.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/navigator/RangeIterator.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/Expression.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/SessionInterface.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/test/TestLobs.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/test/TestSqlPersistent.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/lib/Iterator.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/ParserTable.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/dbinfo/DatabaseInformationMain.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/ExpressionLogical.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/test/TestTextTable.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/SetFunctionValueAggregate.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/RowStoreAVL.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/DataSpaceManager.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/DataSpaceManagerSimple.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/DateTime.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/TransactionManager2PL.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/ParsedCommand.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/map/ValuePoolHashMap.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/test/TestPreparedStatements.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/StatementInsert.java
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/*
**
* provides cross-package access to the proprietary (i.e. non-JDBC)
* HSQldb session interface. <P>
*
* @return the underlying sessionProxy for this connection
*/

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*/

/* These are commands which may contain nested commands and/or which
* require the closing semicolon to send to the DB engine.
* The BEGIN and DECLARE needed for PL/SQL probably do not need to
* terminate the line, as we have it specified here, but I'd rather not be
* too liberal with proprietary SQL like this, because it's easy to
* envision other proprietary or non-proprietary commands beginning with
* DECLARE or BEGIN. */

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* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/DatabaseManagerCommon.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/index/NodeAVL.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/Like.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/TransferCommon.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/Grid.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/Tree.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/CodeSwitcher.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/sample/FindFile.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/SQLStatements.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/TransferTable.java

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* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/util/preprocessor/Tokenizer.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb/util/preprocessor/Parser.java
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*/
/**
 * Comprehensive information about the database as a whole.
 * <p>
 * This interface is implemented by driver vendors to let users know the capabilities
 * of a Database Management System (DBMS) in combination with
 * the driver based on JDBC technology
 * ("JDBC driver") that is used with it. Different relational DBMSs often support
 * different features, implement features in different ways, and use different
 * data types. In addition, a driver may implement a feature on top of what the
 * DBMS offers. Information returned by methods in this interface applies
 * to the capabilities of a particular driver and a particular DBMS working
 * together. Note that as used in this documentation, the term "database" is
 * used generically to refer to both the driver and DBMS.
 * <p>
 * A user for this interface is commonly a tool that needs to discover how to
 * deal with the underlying DBMS. This is especially true for applications
 * that are intended to be used with more than one DBMS. For example, a tool might use the method
 * <code>getTypeInfo</code> to find out what data types can be used in a
 * <code>CREATE TABLE</code> statement. Or a user might call the method
 * <code>supportsCorrelatedSubqueries</code> to see if it is possible to use
 * a correlated subquery or <code>supportsBatchUpdates</code> to see if it is
 * possible to use batch updates.
 * <p>
 * Some <code>DatabaseMetaData</code> methods return lists of information
 * in the form of <code>ResultSet</code> objects.
 * Regular <code>ResultSet</code> methods, such as
 * <code>getString</code> and <code>getInt</code>, can be used
 * to retrieve the data from these <code>ResultSet</code> objects. If
 * a given form of metadata is not available, an empty <code>ResultSet</code>
 * will be returned. Additional columns beyond the columns defined to be
 * returned by the <code>ResultSet</code> object for a given method
 * can be defined by the JDBC driver vendor and must be accessed
 * by their <B>column label</B>.
 * <p>
 * Some <code>DatabaseMetaData</code> methods take arguments that are
 * String patterns. These arguments all have names such as fooPattern.
 * Within a pattern String, "%" means match any substring of 0 or more
 * characters, and "_" means match any one character. Only metadata
 * entries matching the search pattern are returned. If a search pattern
 * argument is set to <code>null</code>, that argument's criterion will
 * be dropped from the search.
 * <p>
 * A method that gets information about a feature that the driver does not
 * support will throw an <code>SQLException</code>.
 * In the case of methods that return a <code>ResultSet</code>
 * object, either a <code>ResultSet</code> object (which may be empty) is
 * returned or an <code>SQLException</code> is thrown.
 * */
HSQLDB-Specific Information:

**Metadata Table Production**

Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production implementation provided in the default build filters metadata based on each SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2 restriction that only users with the DBA role (admin' users in older HSQLDB parlance) could expect trouble-free access to all metadata.

Also starting with HSQLDB 1.7.2, the metadata table production implementation classes are loaded dynamically, using a precedence policy to find and load the richest producer available at runtime. In the event that no better alternative is found, the default minimal (completely restricted) provider is selected. Under this scheme, it is possible for third party packagers to create custom distributions targeted at supporting full (design-time), custom-written (proprietary / micro environment), minimal (production-time) or completely-restricted (space-constrained | device embedded | real-time | hostile environment) metadata table production scenarios. To learn more about this option, interested parties can review the documentation and source code for the `org.hsqldb.dbinfo.DatabaseInformation` class.

Please also note that in addition to the metadata tables produced to directly support this class, starting with HSQLDB 1.7.2, the default build provides many additional tables covering all or most HSQLDB features, such as descriptions of the triggers and aliases defined in the database.

For instance, in the default build, a fairly comprehensive description of each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA column is included in the REMARKS column of the `getTables(String, String, String, String[], String[])` and `getColumns(String, String, String, String, String)` results, which derive from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS, respectively.

Since HSQLDB 2.0 the INFORMATION_SCHEMA views have been vastly expanded in compliance with the SQL:2011 Standard and report the properties of all database objects.

Schema Metadata

The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and this fact is reflected in the all subsequent versions of this class.
* **Catalog Metadata**

* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
  * is a major theme which is reflected in the provision of the majority of the
  * standard-defined full-name INFORMATION_SCHEMA views. <p>

* However, just as CATALOG semantics and handling are still considered to be
  * implementation defined by the most recent SQL standard (SQL:2008), so is the
  * HSQLDB CATALOG concept still in the process of being defined and refined in
  * HSQLDB 2.x. and beyond.<p>

* Previous to HSQLDB 2.x, there were, at various points in time, experimental
  * features provided to turn on pseudo catalog (and before that, pseudo-schema)
  * reporting in the system tables, using the database properties
  * 'hsqldb.catalogs' and 'hsqldb.schemas', respectively.<p>

* However, once the engine fully supported the SQL SCHEMA concept, the
  * experimental 'hsqldb.schemas' * database property was retired. <p>

* Similarly, starting with HSQLDB 2.x, the 'hsqldb.catalogs' database property
  * has been retired and replaced with the convention that, from the perspective
  * of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB
  * database instance which consists of a single, default CATALOG
  * named PUBLIC in which each SCHEMA instance of the database resides. The name of
  * this catalog can be changed with the ALTER CATALOG &lt;name&gt; RENAME TO statement.

* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of
  * database objects at the syntactic level, but does not yet support operations
  * such as opening, manipulating or querying against multiple database
  * catalogs within a single session, not even in a one-at-a-time fashion.

* **Index Metadata**

* It must still be noted that as of the most recent release, HSQLDB continues
  * to ignore the <code>approximate</code> argument of [@link #getIndexInfo
  * getIndexInfo()] as no data is returned for CARDINALITY and PAGES columns.

* **Notes for developers extending metadata table production**

  * Note that in the absence of an ORDER BY clause, queries against the metadata
    * tables that directly support this class are expected to return rows in JDBC
    * contract order. The reason for this is that results typically come
    * back much faster when no &quot;ORDER BY&quot; clause is used. <p>

  * As such, when adding, extending or replacing a JDBC database metadata table
    * production routine, developers need to be aware of this fact and either add the
    * contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible,
    * preferably maintain rows in the contract order by correctly coding the
    * primary index definition in the table producer class.
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/*
* <hr>
*
* (fredt@users)<br>
* (campbell-burnet@users)
* </div>
* <!-- end release-specific documentation -->
* 
* @author Campbell Burnet (campbell-burnet@users dot sourceforge.net)
* @author Fred Toussi (fredt@users dot sourceforge.net)
* @version 2.5.0
* @since HSQLDB 1.9.0
* @see org.hsqldb.dbinfo.DatabaseInformation
*/

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* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/RowAVLDisk.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/index/NodeAVLDisk.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/server/Servlet.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/index/IndexAVL.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-
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1.386 byteman-bmunit 4.0.8

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1.387 swagger-annotations 1.5.20

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  jar/io/swagger/annotations/ApiResponses.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/Extension.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/ExampleProperty.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/ApiResponse.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/ApiImplicitParam.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/ApiParam.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/Api.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/Tag.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/AuthorizationScope.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/ApiModelProperty.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/Contact.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/ExternalDocs.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/Authorization.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/ResponseHeader.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/Info.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/ApiImplicitParams.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/ApiOperation.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
  jar/io/swagger/annotations/ApiModel.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-
1.388 trilead-ssh 1.0.0-build220
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jar/com/trilead/ssh2/crypto/cipher/BlowFish.java
* /opt/cola/permits/1149072743_1618429227.28/0/trilead-ssh2-1-0-0-build220-sources-1-
jar/com/trilead/ssh2/crypto/cipher/AES.java
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1.389 e2fsprogs 1.45.5 2ubuntu1
1.389.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)
$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ));
$(MV) pic/$(BSD_LIB) .
$(RM) -f../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ 
`echo $(my_dir) | sed -e \'s;lib/;;\'' $(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(BSD_LIB)
@-$(LDCONFIG)

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mk2fs, etc.). The EXT2 utilities were written by Theodore Ts'0 <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o
23-June-2007

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It is part of the main e2fsprogs distribution, which can be found at:

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* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
* /opt/ws_local/PERMITS_SQL/1069262461_1594595111.79/0/spring-core-5-1-9-release-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java

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jar/org/springframework/asm/MethodWriter.java
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jar/org/springframework/asm/SymbolTable.java
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jar/org/springframework/asm/CurrentFrame.java
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1.398 urllib3 1.25.11

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage
* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofo.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support
* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanchy@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HttpHeadersDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>  
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url
* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.
* Evan Meagher <https://evanmeagher.net>
  Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytt@iki.fi>
  Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  Various character-encoding fixes/tweaks
  Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  History list to Retry object.
  HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  Ensure timeouts are not booleans and greater than zero.
  Fixed infinite loop in `stream` when amt=None.
  Added length_remaining to determine remaining data to be read.
  Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  Created selectors backend that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `utilselectors_fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>

* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>

* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>

* Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>

* Allow cadata parameter to be passed to underlying ```SSLContext.load_verify_locations()```.

* Keiichi Kobayashi <abok.1k@gmail.com>

* Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>

* DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>

* Test improvements

* Chris Olufson <stycarac@gmail.com>

* Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>

* Support for logging session keys via environment variable ```SSLKEYLOGFILE``` (Python 3.8+)

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

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## 1.400 jersey-container-servlet 2.29.1

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The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

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  jar/org/springframework/boot/web/embedded/undertow/UndertowBuilderCustomizer.java
* /opt/cola/permits/1141988950_1615255629.89/0/spring-boot-2-2-2-release-sources-2-
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* /opt/cola/permits/1141988950_1615255629.89/0/spring-boot-2-2-2-release-sources-2-
jar/org/springframework/boot/WebApplicationType.java
* /opt/cola/permits/1141988950_1615255629.89/0/spring-boot-2-2-2-release-sources-2-
jar/org/springframework/boot/context/annotation/UserConfigurations.java

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/**
 * A [@link WebApplicationContext] that can be used to bootstrap itself from a contained
 * [@link ServletWebServerFactory] bean.
 * <p>
 * This context will create, initialize and run an [@link WebServer] by searching for a
 * single [@link ServletWebServerFactory] bean within the [@link ApplicationContext]
 * itself. The [@link ServletWebServerFactory] is free to use standard Spring concepts
 * (such as dependency injection, lifecycle callbacks and property placeholder variables).
 * <p>
 * In addition, any [@link Servlet] or [@link Filter] beans defined in the context will be
 * automatically registered with the web server. In the case of a single Servlet bean, the
 * '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
 * name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
 * always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
For more advanced configuration, the context can instead define beans that implement
the `@link ServletContextInitializer` interface (most often
`@link ServletRegistrationBean`s and/or `@link FilterRegistrationBean`s). To prevent
double registration, the use of `@link ServletContextInitializer` beans will disable
automatic Servlet and Filter bean registration.

Although this context can be used directly, most developers should consider using the
`@link AnnotationConfigServletWebServerApplicationContext` or
`@link XmlServletWebServerApplicationContext` variants.

@since 2.0.0
@since 2.0.0
@see AnnotationConfigServletWebServerApplicationContext
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@see ServletWebServerFactory

*/

Found in path(s):
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jar/org/springframework/boot/web/servlet/context/ServletWebServerApplicationContext.java

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mecab-ko-dic-2.0.3-20170922

which can be obtained from

https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

1.404 springfox-bean-validators 2.8.0
1.405 classmate 1.5.1
1.405.1 Available under license:

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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1.406 hibernate-envers 3.6.10.Final
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1.409 libffi 3.0.13 19.el7

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/DefaultUriBuilderFactory.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/MultipartBodyBuilder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/xml/XmlEventDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/RequestMapping.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/cors/CorsConfiguration.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/ResponseEntity.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/accept/MediaTypeFileExtensionResolver.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/UrlPathHelper.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/server/reactive/ServerHttpRequestDecorator.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/xml/JaxbContextContainer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/client/HttpStatusCodeException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/client/support/DefaultServerCodecConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/util/pattern/InternalPathPatternParser.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/cors/reactive/CorsWebFilter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/client/HttpMessageConverterExtractor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/server/reactive/ChannelSendOperator.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/http/client/support/InterceptingHttpAccessor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/context/support/ServletContextScope.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/context/support/RequestHandledEvent.java
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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
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# #
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
# #
# This file was retrieved from
# # MIME type (lowercased)Extensions
# ==-----------------------------------------------------------------------
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l

---

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application/shf+xml
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml
# application/smrte336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query
application/sparql-results+xml
# application/spirits-event+xml
# application/sql
application/srgsgram
application/srgs+xml
application/sru+xml
application/ssdl+xml
application/ssml+xml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xml
application/thraud+xml
# application/timestamp-query
# application/timestamp-reply
application/timestamped-data
# application/ttml+xml
# application/tve-trigger
# application/ulpfec
# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/urc-targetdesc+xml
# application/urc-uisocketdesc+xml
# application/vcard+json
# application/vcard+xml
# application/vemmi
# application/vividence.scriptfile
# application/vnd.3gpp-prose+xml
# application/vnd.dvbnotif-aggregate-root+xml
# application/vnd.dvbnotif-container+xml
# application/vnd.dvbnotif-generic+xml
# application/vnd.dvbnotif-ia-msglist+xml
# application/vnd.dvbnotif-ia-registration-request+xml
# application/vnd.dvbnotif-ia-registration-response+xml
# application/vnd.dvbnotif-init+xml
# application/vnd.dvb.pfr
application/vnd.dvb.servicesvc
# application/vnd.dvb.dxr
application/vnd.dynageogeo
# application/vnd.dvb.d2r
# application/vnd.easykaraoke.cdgdownload
# application/vnd.ecdis-update
application/vnd.ecowin.chartmag
# application/vnd.ecowin.filerequest
# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enlivenxml
# application/vnd.enphase.envoy
# application/vnd.epis.data+xml
application/vnd.epson.esf
application/vnd.epson.msf
application/vnd.epson.quickanimeqam
application/vnd.epson.saltssf
# application/vnd.ericsson.quickcall
application/vnd.esigno3+xml et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
# application/vnd.etsi.iptvservice+xml
# application/vnd.etsi.iptvueprofile+xml
# application/vnd.etsi.mcid+xml
# application/vnd.etsi.mheg5
# application/vnd.etsi.overload-control-policy-dataset+xml
# application/vnd.etsi.pstn+xml
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# application/vnd.globalplatform.card-content-mgt
# application/vnd.globalplatform.card-content-mgt-response
application/vnd.gmxml
application/vnd.google-earth.kml+xml
application/vnd.google-earth.kmz
# application/vnd.gov.sk.e-form+xml
# application/vnd.gov.sk.e-form+zip
# application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq gqfgqs
# application/vnd.gridmp
application/vnd.groove-account gac
application/vnd.groove-help ghfgf
application/vnd.groove-identity-message gim
application/vnd.groove-tool-message gtgm
application/vnd.groove-tool-template tpl
application/vnd.groove-vcard vcg
# application/vnd.hal+json
application/vnd.hal+xml hal
application/vnd.handheld-entertainment+xml zmm
application/vnd.hbci hbcichbc
# application/vnd.hcl-bireports
# application/vnd.hdt
# application/vnd.heroku+json
application/vnd.hhe.lesson-player les
application/vnd.hp-hpgl hpgl
application/vnd.hp-hpid hpid
application/vnd.hp-hps hps
application/vnd.hp-jlyt jlt
application/vnd.hp-pcl pcl
application/vnd.hp-pclxl pclxl
# application/vnd.httpphone
application/vnd.hydrostatix.sof-data sof-data-hdstx
# application/vnd.hyperdrive+json
# application/vnd.hzn-3d-crossword
# application/vnd.ibm.afplinedata
# application/vnd.ibm.electronic-media
application/vnd.ibm.minipay mp
application/vnd.ibm.modcap afp listafp list3820
application/vnd.ibm.rights-management irm
application/vnd.iccprofile icc icm
# application/vnd.ieee.1905
application/vnd.igloader igl
application/vnd.immervision-ivp ivp
application/vnd.immervision-ivu ivu
# application/vnd.ims.imsccv1p1
# application/vnd.ims.imsccv1p2
application/vnd.mobius.txttxf
application/vnd.mobius.applicationmpn
application/vnd.mobius.certificatempc
# application/vnd.motorola.flexsuite
# application/vnd.motorola.flexsuite.adsi
# application/vnd.motorola.flexsuite.fis
# application/vnd.motorola.flexsuite.gotap
# application/vnd.motorola.flexsuite.kmr
# application/vnd.motorola.flexsuite.ttc
# application/vnd.motorola.flexsuite.wem
# application/vnd.motorola.iprm
application/vnd.mozilla.xul+xml
tx
# application/vnd.motorola.iprm
application/vnd.ms-3mfdocument
application/vnd.ms-artgalrycil
# application/vnd.ms-asf
application/vnd.ms-cab-compressedcab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel.xlsm
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application/vnd.ms-excel.addin.macroenabled.12xlam
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application/vnd.ms-excel.sheet.macroenabled.12xlsm
application/vnd.ms-excel.template.macroenabled.12xltm
application/vnd.ms-fontobject
eot
application/vnd.ms-htmlhelp
chm
application/vnd.ms-ims
ims
application/vnd.ms-lrm
lrm
# application/vnd.ms-officeactivex+xml
application/vnd.ms-officetheme
thmx
# application/vnd.ms-opentype
# application/vnd.ms-package.obfuscated-opentype
application/vnd.ms-pki.seccat
cat
application/vnd.ms-pki.stl
stl
# application/vnd.ms-playready.initiator+xml
application/vnd.ms-powerpointaddins.macroenabled.12ppam
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# application/vnd.ms-windows.printerpairing
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# application/vnd.ntt-local.content-share
# application/vnd.ntt-local.file-transfer
# application/vnd.ntt-local.ogw_remote-access
# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
application/vnd.oasis.opendocument.chartodc
application/vnd.oasis.opendocument.chart-templateotc
application/vnd.oasis.opendocument.databaseodb
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application/vnd.oasis.opendocument.text-weboth
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# application/vnd.oftn.l10n+json
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# application/vnd.oipf.contentaccessstreaming+xml
# application/vnd.oipf.cspg-hexbinary
# application/vnd.oipf.dae.svg+xml
# application/vnd.oipf.dae.xhtml+xml
# application/vnd.oipf.mippvcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.uprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugarxo
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
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# application/vnd.oma.bcast.drm-trigger+xml
# application/vnd.oma.bcast.imd+xml
# application/vnd.oma.bcast.itkm
# application/vnd.oma.bcast.notification+xml
# application/vnd.oma.bcast.provisioningtrigger
# application/vnd.oma.bcast.sgboot
# application/vnd.oma.bcast.sgdd+xml
# application/vnd.oma.bcast.sgdu
application/yin+xml
application/zip
# application/zlib
# audio/1d-interleaved-parityfec
# audio/32kadpcm
# audio/3gpp
# audio/3gpp2
# audio/ac3
audio/adipcm
# audio/amr
# audio/amr-wb
# audio/amr-wb+
# audio/aptx
# audio/asc
# audio/atrac-advanced-lossless
# audio/atrac-x
# audio/atrac3
audio/basic
# audio/bv16
# audio/bv32
# audio/clearmode
# audio/cn
# audio/dat12
# audio/dls
# audio/dsr-es201108
# audio/dsr-es202050
# audio/dsr-es202211
# audio/dsr-es202212
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# audio/evrcnw1
# audio/evrcwb
# audio/evrcwb0
# audio/evrcwb1
# audio/evs
# audio/example
# audio/fwdred
image/x-portable-graymappgm
image/x-portable-pixmapppm
image/x-rgbrgb
image/x-tga
image/x-xbitmap
image/x-xpixmap
image/x-xwindowdump
# message/cpim
# message/delivery-status
# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/imdn+xml
# message/news
# message/partial
message/rfc822eml mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
model/iges iges
model/mesh mesh silo
model/vnd.collada+xml vda
model/vnd.dwf
# model/vnd.flatland.3dml
model/vnd.gdl
# model/vnd.gs-gdl
# model/vnd.gs.gdl
model/vnd.gtwg
# model/vnd.moml+xml
model/vnd.mtsmmts
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu
model/vrmlwrl vrml
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/HttpMediaTypeException.java

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/bind/support/SimpleSessionStatus.java
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/*
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See {@link WebSession}
 * for more details.
 */

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java

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* /opt/cola/permits/1138553249_1614290596.45/0/file-management-1-1-sources-1-
  jar/org/apache/maven/shared/model/fileset/mappers/PackageNameMapper.java

1.416 plexus-build-api 0.0.4

1.417 pcre2 10.34-7
1.417.1 Available under license:

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

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

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

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

(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.)

@end enumerate

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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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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.

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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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@subheading END OF TERMS AND CONDITIONS

@page
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@end example

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@example

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPath.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtConstructor.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
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* /opt/cola/permits/1141988970_1615255817.33/0/spring-context-5-2-2-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedResource.java
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* /opt/cola/permits/1141988970_1615255817.33/0/spring-context-5-2-2-release-sources-2.jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
* /opt/cola/permits/1141988970_1615255817.33/0/spring-context-5-2-2-release-sources-2.jar/org/springframework/remoting/RemoteTimeoutException.java

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 */
/**
 * [@link FactoryBean] that obtains a WebSphere [@link javax.management.MBeanServer]
 * reference through WebSphere's proprietary [@code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
Exposes the [@code MBeanServer] for bean references.

This [@code FactoryBean] is a direct alternative to [@link MBeanServerFactoryBean], which uses standard JMX 1.2 API to access the platform's [@link MBeanServer].

See the javadocs for WebSphere's

See the javadocs for WebSphere's

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* /opt/cola/permits/1141988970_1615255817.33/0/spring-context-5-2-2-release-sources-2-jar/org/springframework/scripting/bsh/BshScriptFactory.java
* /opt/cola/permits/1141988970_1615255817.33/0/spring-context-5-2-2-release-sources-2-jar/org/springframework/cache/annotation/CachePut.java
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 */

/**
 * Indicates that a component is only eligible for registration when all
 * [@linkplain #value specified conditions] match.
 *
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see [@link Condition] for details).
 * */
The `@Conditional` annotation may be used in any of the following ways:

- as a type-level annotation on any class directly or indirectly annotated with `@Component`, including `@Configuration @Configuration` classes
- as a meta-annotation, for the purpose of composing custom stereotype annotations
- as a method-level annotation on any `@Bean @Bean` method

If a `@Configuration` class is marked with `@Conditional`, all of the `@Bean` methods, `@Import @Import` annotations, and `@ComponentScan @ComponentScan` annotations associated with that class will be subject to the conditions.

NOTE: Inheritance of `@Conditional` annotations is not supported; any conditions from superclasses or from overridden methods will not be considered. In order to enforce these semantics, `@Conditional` itself is not declared as `@Inherited`; furthermore, any custom `<em>` composed annotation that is meta-annotated with `@Conditional` must not be declared as `@Inherited`.

@see Condition

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* /opt/cola/permits/1141988970_1615255817.33/0/spring-context-5-2-2-release-sources-2-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
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* /opt/cola/permits/1141988970_1615255817.33/0/spring-context-5-2-2-release-sources-2-jar/org/springframework/context/Phased.java
* /opt/cola/permits/1141988970_1615255817.33/0/spring-context-5-2-2-release-sources-2-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /opt/cola/permits/1141988970_1615255817.33/0/spring-context-5-2-2-release-sources-2-jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /opt/cola/permits/1141988970_1615255817.33/0/spring-context-5-2-2-release-sources-2-jar/org/springframework/jmx/export/MBeanInfoAssembler.java

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1.432 slf4j 1.7.29

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Found in path(s):
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4.1.34-final-sources-1-
  jar/io/netty/resolver/SimpleNameResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4.1.34-final-sources-1-
  jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4.1.34-final-sources-1-
  jar/io/netty/resolver/package-info.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4.1.34-final-sources-1-
  jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4.1.34-final-sources-1-
  jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4.1.34-final-sources-1-
  jar/io/netty/resolver/NoopAddressResolver.java

1.434 centos-release-qemu-ev 1.0-
4.el7.centos

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xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

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http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
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David Megginson, david@megginson.com
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1.438 python-requests 2.21.0
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1.440 maven-surefire-plugin 3.0.0-M4

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1.441 maven-error-diagnostics 2.0.9

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1.444 paramiko 2.4.2

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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...

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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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David Megginson, david@megginson.com
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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
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XZ for Java 1.0 (2011-10-22)

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

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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]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

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]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----

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* /opt/ws_local/PERMITS_SQL/1072989935_1595248329.71/0/netty-handler-4-1-39-final-sources-jar/io.netty.handler.timeout/IdleStateHandler.java
* /opt/ws_local/PERMITS_SQL/1072989935_1595248329.71/0/netty-handler-4-1-39-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072989935_1595248329.71/0/netty-handler-4-1-39-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072989935_1595248329.71/0/netty-handler-4-1-39-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072989935_1595248329.71/0/netty-handler-4-1-39-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072989935_1595248329.71/0/netty-handler-4-1-39-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
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### 1.453 jakarta-validation-api 2.0.2

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ParameterDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/NotNull.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/GroupSequence.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/Negative.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/ConstraintValidatorFactory.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/ValidationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/OverridesAttribute.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/spi/BootstrapState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/Email.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/ConstraintDeclarationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/metadata/PropertyDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/ConstraintValidator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/executable/ExecutableType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/AssertFalse.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/Future.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/Positive.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/NotEmpty.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/Payload.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/Past.java

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1.455 jackson-dataformat-yaml 2.10.3

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1.461 spring-boot-starter-validation

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sources-1-jar/META-INF/maven/org.springframework.boot/spring-boot-starter-validation/pom.xml

1.462 testtools 2.5.0

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* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources.jar/org/wildfly/security/ssl/BooleanCipherSuitePredicate.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources.jar/org/wildfly/security/ssl/CipherSuiteSelector.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources.jar/org/wildfly/security/ssl/AbstractDelegatingSSLSocket.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources.jar/org/wildfly/security/ssl/AbstractDelegatingSSLSocketFactory.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources.jar/org/wildfly/security/ssl/AbstractDelegatingSSLServerSocket.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources.jar/org/wildfly/security/ssl/AbstractDelegatingSSLServerSocketFactory.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources.jar/org/wildfly/security/ssl/AbstractDelegatingSSLServerSocketFactory.java
jar/org/wildfly/security/ssl/LinkedProperties.java
/* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/Protocol.java
*/
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/AbstractDelegatingSSLEngine.java
*/
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/AbstractDelegatingSSLSessionContext.java
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* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/ConfiguredSSLServerSocketFactory.java
*/
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/ConfiguredSSLServerSocket.java
*/
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/ElytronMessages.java
*/
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/OrCipherSuitePredicate.java
*/
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/FipsCipherSuitePredicate.java
*/
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/AndCipherSuitePredicate.java
*/
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/ProtocolSelector.java

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* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/META-INF/maven/org.wildfly.security/wildfly-elytron-ssl/pom.xml

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  jar/org/wildfly/security/ssl/SSLExplorer.java
  */opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-
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* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/SecurityDomainTrustManager.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/SSLContextSelector.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/SelectingServerSSLEngine.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/WrappingX509ExtendedTrustManager.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/SSLConfiguratorImpl.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/SSLContextBuilder.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/SSLConfigurator.java

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* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/X509RevocationTrustManager.java

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* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/SNIContextMatcher.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/SNISSLEngine.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/SNISSLContextSpi.java
* /opt/cola/permits/1150250582_1627682367.97/0/wildfly-elytron-ssl-1-10-3-final-sources-jar/org/wildfly/security/ssl/SNISSLContext.java

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1.473 johnzon-core 1.2.3

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2.1. This Agreement consists of these General Conditions, and any Order Form(s) or Specific Conditions, which prevail over these General Conditions to the extent of any conflict. 2.2. This Agreement forms the entire agreement between the Parties relating to this subject matter, replaces and supersedes any previous proposals, correspondence and understandings, whether written or oral; including any Customer terms and conditions, which shall not apply. 2.3. This Agreement may not be altered, modified, amended, changed, rescinded or discharged in whole or in part, except by written agreement signed by both Customer and Axway. 2.4. Nothing contained in any document or purchase order submitted by Customer shall in any way modify or add to the terms of this Agreement.

ARTICLE 3 TERM
3.1. This Agreement shall remain in effect unless terminated in accordance with Article 17. The right of Use is granted from the Effective Date, or if none stated, upon Delivery by Axway. 3.2. If purchased by Customer, Support Services shall commence on the Effective Date and shall continue for an initial period of one (1) year (Initial Support Term) except as otherwise set forth in the Order Form. Upon expiration of the Initial Support Term, the Support Services shall be automatically renewed for one (1) year periods, with payments required prior to the start of the new support term, unless and until terminated in accordance with Article 17. 3.3 The terms of this Article 3.3 apply if Customer is obtaining an evaluation license. Subject to the terms of this Agreement, Axway grants to Customer (i) a non-exclusive, non-transferable license, without right of sublicense, to install and Use the evaluation version of the Licensed Component, in object code form and/or (ii) the right to Use the Hardware Product for evaluation and trial purposes only. The term of this license begins upon delivery or download and ends thirty (30) days thereafter, or extends for such longer period as Axway shall have agreed to in writing (the "Evaluation Period"). When the Evaluation Period expires Customer must stop Using the Licensed Component, and return any Product to Axway. Axway disclaims all warranties during this Evaluation Period and Customer waives all claims against Axway related to this Evaluation Period.

ARTICLE 4 USE OF THE LICENSED COMPONENT
4.1. As of the Effective Date of this Agreement, Axway grants to Customer, subject to the terms and conditions of this Agreement, a perpetual, non-exclusive, non-assignable and non-transferable right to Use the Licensed Component for Customer’s own internal business purposes only. Any delay in any payment of the fees related to this Agreement as set forth in Article 8 thirty (30) days beyond the payment date will automatically suspend the right to Use the Licensed Component for Customer, upon written notice by Axway. The Product, including portions and information or materials thereof, may not be used for any purpose that would be a violation of this Agreement. All rights not addressed herein are specifically reserved by Axway. Customer shall not Use the Product to provide services to third parties, including ASP, facilities management, outsourcing, unless expressly provided for in an
Order Form. 4.2. If Customer has purchased a license for Products which are used by Customer to distribute to any third party Trading Partner that has a business need to securely transfer files to or from Customer, then the sublicense such Trading Partner has conveys the right to Use the Product for the purpose of transferring files to and from Customer in the furtherance of Customers internal business purposes only. 4.3. If Customer wishes to permanently transfer the Licensed Component to a new Operating Environment, the Order Form associated with this Agreement will have to be updated accordingly. Once the transfer has been made to the new authorized Operating Environment, Customer shall erase the Licensed Component from the former Operating Environment, within the time frame allowed in the Order Form. 4.4. Customer has the right to make one back-up copy of the Licensed Component for archival purpose only. Any other copies, reproductions and summaries of the Licensed Component or Documentation are prohibited.

ARTICLE 5 DELIVERY AND WARRANTY
5.1. Axway shall provide Customer with the Licensed Component in object code form and with the Documentation. Full title to the Hardware Product passes to Customer upon Delivery. Products are delivered Free On Board (FOB) shipping point with freight and insurance prepaid. 5.2. The Use of certain Licensed Components will require a key. The key will be generated by Axway based on computer-dependent Customer information. Customer agrees to provide the necessary information as required to generate and activate the key. 5.3. THE TERMS OF THIS AGREEMENT ARE INSTEAD OF ALL WARRANTIES, CONDITIONS, TERMS, UNDERTAKINGS AND OBLIGATIONS IMPLIED BY STATUTE, COMMON LAW, CUSTOM, TRADE USAGE, COURSE OF DEALING OR OTHERWISE, ALL OF WHICH ARE HEREBY EXCLUDED TO THE FULLEST EXTENT PERMITTED BY LAW.

ARTICLE 6 SUPPORT SERVICES
6.1. Upon payment of the applicable fees, Axway will provide technical Support Services, at the level specified on the Order Form. 6.2. Axway is under no obligation to provide Support Services (i) if there has been a modification or attempted modification of the Product (other than modifications made by Axway and delivered as part of the Product) or the Product has been improperly installed by Customer or operated or used other than in accordance with this Agreement and the Documentation; or (ii) if Customer has refused, delayed or otherwise failed to implement a release or other modification that Axway has provided or recommended.

ARTICLE 7 ADDITIONAL SERVICES
7.1. In accordance with its expertise and availability, Axway will, if ordered by Customer, provide services that may include installation, implementation, technical and training assistance services for the Product, or subscription-based services ("Additional Services") to Customer at the rates set forth in the Order Form or, if no rates are set forth, the rates in effect at the time that such Services are provided. 7.2. Except for Retained Works (defined below), all right and title to professional services deliverables shall belong to Customer. Axway will be the owner of any Retained Works, which are defined to include: (i) any pre-existing materials, including any of Axway's preexisting software code, proprietary software tools, or training materials incorporated into the deliverables; (ii) any customized modifications to the Licensed Component unless an applicable work order, SOW or other similar document expressly provides that such modifications are assigned to Customer; and (iii) any third party programs which are integrated with or incorporated into the deliverables. For any Retained Works incorporated into a deliverable, Axway grants Customer a non-exclusive, worldwide, royalty-free license to use such Retained Works to the same extent that Customer is licensed to use any related Licensed Component.

ARTICLE 8 PAYMENT TERMS AND CONDITIONS
8.1. The fees for the Products and Support Services are listed in the Order Form. In addition to the fees listed in the Order Form, Customer shall be responsible for all personal property, sales, use, value-added, withholding and similar taxes (other than taxes on Axway's net income) arising from the transactions described in this Agreement.
Where Customer’s Use of the Software or receipt of Services is exempt from sales or other taxes, Customer shall provide Axway with the appropriate exemption certificate. All amounts payable under this Agreement shall be paid net thirty (30) days from the invoice date, unless stated otherwise in an Order Form. 8.2. The license fee is fixed and not subject to revision. It shall be invoiced in full on the Effective Date, unless stated otherwise in an Order Form. 8.3. Support Services fees shall be invoiced on the Effective Date and are due net thirty (30) days from the invoice date unless otherwise stated in an Order Form. Support Services fees are subject to annual revision as stated in the relevant Specific Conditions. 8.4. Fees for professional services shall be invoiced at the end of the month in which they are provided. Travel and accommodation expenses incurred to provide training, technical assistance, support and installation services shall be invoiced to Customer based on the actual and reasonable costs incurred by Axway. Supporting documents will be provided upon reasonable request. Fees for professional services are subject to annual revision as stated in the relevant Specific Conditions. 8.5. Fees or other amounts remaining unpaid for thirty (30) days following the date of invoice shall be considered overdue and shall remain payable by Customer together with interest for late payment from the date payable at the rate of 4% per annum above the base rate for the time being of Lloyds TSB Bank plc. In addition to the above provision for late payment, Axway reserves the right to suspend performance of any Additional Services (which includes hosting services, as applicable).

ARTICLE 9 CUSTOMER RESPONSIBILITIES
9.1. Unless the hosted option is selected, Customer shall be responsible for operating the Product and shall: ensure that the hardware, base program, network and operating system configuration are suitable, develop the operating measures, control procedures and security measures required for data backup and replacement in the event of interruption in Product operation, 9.2. Customer is also responsible for: protecting its own recorded data, and the results obtained and any direct or indirect consequences thereof, making qualified personnel available to resolve any problems, and appointing one of its employees to serve as the primary point of contact with Axway for any technical issues.

ARTICLE 10 INTELLECTUAL PROPERTY
10.1. Only a right to Use the Licensed Component is granted to Customer; any extension of the right granted shall be subject to Axway’s prior written consent. The Parties acknowledge and agree that Customer has only Use rights with respect to the Licensed Component, but Customer owns the Hardware Product. Axway retains title in and to the Licensed Component, including any portion thereof and information, materials or copy made from it or any part of it and copyright in the Licensed Component. 10.2. If Customer wishes to make the Product interoperable with other programs, other than as envisaged in the Documentation, Axway may make the necessary information available to Customer upon receipt of a written request. 10.3. Except as otherwise provided for in this Agreement or permitted under applicable law, Customer will not, directly or through any person or entity, in any form or manner (i) copy, sublicense, lease, assign, distribute, reproduce, incorporate, use or allow access to the Product or modify, prepare derivative works from the Licensed Component except as explicitly permitted under this Agreement or (ii) decrypt, extract, decompile or otherwise reverse engineer the Licensed Component, or otherwise disassemble, derive or attempt to derive the source code of, or any processes, methods, specifications, protocols, algorithms, interfaces, data structures, or other information embodied or used in, the Product. The restrictions of this Article 10 shall survive the termination of the Agreement. If Customer has purchased licenses for a Trading Partner, Customer shall ensure each Trading Partner is bound to provisions at least as protective of Axway as Articles 4, 10, 12, 14 and 15. Customer shall promptly notify Axway of any unauthorized use, disclosure, reproduction, or distribution of any Product, which comes to Customers attention, or which Customer reasonably suspects. Customer may Use any Third Party Software products or modules supplied by Axway solely with the Licensed Component. 10.4. If, in the performance of any Additional Services hereunder, Axway is required to use any Customer supplied programs, Customer hereby warrants that it has obtained any necessary authorizations and licenses required to allow Axway to access and use such program as necessary for performance of the Services. Customer shall provide any associated supporting documentation to Axway promptly upon request.
ARTICLE 11 INDEMNIFICATION

11.1. Axway agrees to defend, settle and indemnify Customer from and against any amounts payable under judgment, court order or settlement brought by any unaffiliated third party against Customer to the extent that such action results from actual or alleged infringement by any Product of any third party copyright, trade secret or patent existing or issued as of the date that Axway initially Delivered the applicable version of such Product to Customer. In connection with any allegation of infringement of any third party rights, Customer shall (and it shall be a condition of reliance upon the indemnity for Customer to): immediately notify Axway in writing of the allegation; and allow Axway sole control of the defense and any related settlement negotiations; and cooperate in good faith in the said defense and comply with all of Axways reasonable requests (at Axways expense) in defending or settling the claim. 11.2. Should Customers use of the Product be determined to have infringed any third party rights, or if in Axways judgment, such use is likely to be infringing, Axway shall endeavor at its option do one of the following, at its own expense: - procure for Customer the right to continue owning and/or using the Product, as applicable, - replace or modify the Product to make its Use non-infringing while yielding substantially equivalent functionality. If and only if the previous options are not, in Axways reasonable judgment, commercially reasonable, then Axway may terminate this Agreement as it applies to the specific Product and the corresponding rights of Use. Customer agrees to destroy or return the affected Product to Axway on its written request and Axway will then return the Product license fees to Customer as prorated over a five (5) year term commencing on the date of Delivery of the applicable Product by Axway. The obligations of Axway in this Article 11 will not apply to the extent that the infringement or claim thereof is based on (i) Use of the Product other than in accordance with this Agreement, or (ii) modifications or additions to the Product by Customer personnel (other than modifications at Axways direction) or (iii) use of other than the most recent version of any Product if and from the time Axway informs Customer in writing that infringement or misappropriation may be avoided by use of the most recent version of such Product. THIS ARTICLE 11 SETS FORTH THE FULL SCOPE OF AXWAYS LIABILITY AND CUSTOMERS EXCLUSIVE REMEDY, TO THE EXTENT PERMITTED BY LAW, FOR ANY ACTUAL OR ALLEGED INFRINGEMENT OF THIRD PARTY RIGHTS IN CONNECTION WITH THE PRODUCT.

ARTICLE 12 LIABILITY

12.1. Axway does not warrant that the Product will operate in combination with other software selected by Customer, or that the Product will operate uninterrupted or free of non-material Defects. The Customer shall promptly inform Axway of any Defect and afford Axway reasonable opportunity to correct the Defect including, without limitation, the option to provide replacement Product, or correct any deficiency in Support Services. 12.2. Except for Axways obligations with respect to indemnification or confidentiality, Axway is not liable for any special, indirect, exemplary, incidental, punitive or consequential damages of any kind, including, without limitation, damages for loss of goodwill, work stoppage, lost profits, lost data or computer hardware or software damage, failure or malfunction, whether or not Axway has been advised of the possibility of such damages; except for Axways obligations with respect to indemnification or confidentiality, Axways liability hereunder shall not exceed the total amount of license and services fees invoiced under this agreement for the software giving rise to such liability during the calendar year in which the claim arose. The foregoing limitations of liability and disclaimers of damages apply regardless of the form in which an action (legal, equitable or otherwise) may be brought, whether in contract, tort, or otherwise. The limitations of liabilities, disclaimers of warranties, exclusivity of remedies and other limitations set forth herein are an essential element of the bargain between the parties (without which the transactions contemplated by this agreement would not occur) and will apply even if a remedy fails in its essential purpose. Axways liability for death and personal injury caused by its negligence and any breach of its obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982 will be unlimited 12.3. This Agreement is enforçable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right to enforce or rely on any of the terms of this Agreement. The terms of this Article 12 shall survive termination of this Agreement.
ARTICLE 13  ADVERTISING
The Customer must include Axway's name any time it refers to the Product. The Customer hereby authorizes Axway to include its name in a customer list.

ARTICLE 14  ADMINISTRATIVE REQUIREMENTS
The Customer is responsible for obtaining any required legal authorizations arising out of Customers particular use of the Products and is responsible for its compliance with applicable data protection legislation.

ARTICLE 15  CONFIDENTIALITY
15.1. Each Party recognizes that under this Agreement either Party may have access to or otherwise receive trade secrets and confidential or proprietary information of the other, including information concerning products, including but not limited to the names of Customers clients, financial or contractual arrangements. All such information shall constitute "Confidential Information". The Products, including any Documentations or portions thereof and information, material or copy derived there from, is proprietary and confidential to Axway. Each Party agrees not to use, other than for the purposes for which it was disclosed or divulged the other party's Confidential Information and to limit disclosure of same to those of its employees and independent contractors who have a need to know the same and to use all reasonable endeavors to prevent its disclosure to or access by any third party without the prior written consent of the disclosing party. 15.2. Confidential Information does not include information that: (i) is or becomes a part of the public domain through no act or omission of the receiving Party; (ii) was in the receiving Party's lawful possession prior to the disclosure and had not been obtained by the receiving Party either directly or indirectly from the disclosing Party; (iii) is lawfully disclosed to the receiving Party by a third party without restriction on disclosure; (iv) is independently developed by the receiving Party without reference to the disclosing Party's Confidential Information; or (v) is required to be disclosed by any court of competent jurisdiction or by a governmental or regulatory authority or where there is a legal right, duty or requirement to disclose. In such event, the receiving Party will (and without breaching any legal or regulatory requirement) where reasonably practicable give the disclosing Party prompt notice in writing of the requirement to disclose. 15.3. The rights and obligations of the Parties under this Article 15 shall continue for three (3) years following expiration or termination of this Agreement.

ARTICLE 16  NON-SOLICITATION
16.1. For the duration of this Agreement and for the period of twelve (12) months following its termination or expiration, neither Party shall, without the prior written consent of the other Party, actively endeavor to solicit or entice away any person employed or engaged by the other Party in the performance or administration of this Agreement. 16.2. If a Party breaches the foregoing obligation, the breaching party shall pay to the other Party twelve times the prior monthly base salary of the relevant person, such sum being deemed by both Parties to be fair compensation for the loss suffered as a result of the breach. 16.3. The provisions of Article 16.2 shall not apply to any individual who can be proven to have responded to a bona fide published recruitment advertisement where the recruited person is not recruited to work for or with a party's personnel or department involved in this Agreement. Nothing in this Article 16 is intended to restrict the right of any individual to seek employment with whomsoever they wish, but is intended to provide for due compensation where such a situation occurs as a result of entering into this Agreement recognizing that loss of experienced personnel can have a serious effect upon any employer.

ARTICLE 17  TERMINATION
17.1. This Agreement may be terminated by either Party immediately upon written notice if the other Party is in material or continuing breach of any of its obligations under this Agreement and fails to remedy that breach (if capable of remedy) within thirty (30) days after receiving written notice of such breach. 17.2. Either Party may terminate this Agreement forthwith on giving written notice to the other Party if such Party has had a receiver or
administrative receiver appointed over the whole or any part of its undertaking or assets or passes a resolution for winding up, or a court of competent jurisdiction makes an order to that effect or if the other Party enters into any voluntary arrangement with its creditors or becomes subject to a bankruptcy administration order or ceases to carry on business. 17.3. Upon termination of the Agreement Customer must, depending on the method of Product delivery, either: (i) return the Licensed Component and the Documentation to Axway and destroy or return any copies of the Licensed Component that it may have made within fifteen (15) days from the termination date or (ii) remove all copies of the Licensed Component and certify in writing that all copies have been removed and destroyed. 17.4. After the Initial Support Term or any of the annual renewal of Support Services terms, either Party may terminate the Support Services on six (6) months prior written notice.

ARTICLE 18 WAIVER
The fact that either Party fails to take action after a breach by the other Party of any of its obligations arising hereunder shall not be construed or operate as a waiver of the obligation in question or of any later breach.

ARTICLE 19 SEVERABILITY
If any of the provisions of this Agreement, or any part thereof, is judged to be illegal or unenforceable, the remaining provisions will continue in full force and effect for the remainder of this Agreement and shall not be prejudiced, unless the substantive purpose of this Agreement is thereby frustrated, in which case either Party may terminate this Agreement forthwith on written notice.

ARTICLE 20 ASSIGNMENT
This Agreement and the license granted hereunder may not be assigned or transferred in whole or in part by Customer without Axways prior written consent. Axway may assign and transfer its complete rights and obligations under this Agreement, without the consent of Customer, to any corporation that is a wholly owned subsidiary or parent or sister corporation of Axway. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right, including without limitation under the Contracts (Rights of Third Parties) Act 1999 to enforce or rely on any of the terms of this Agreement.

ARTICLE 21 AUDIT
Axway hereby reserves the right to conduct an on-site audit of Customer to verify compliance with the Licensed Component license granted herein by providing at least three (3) days prior written notice. Customer consents to audit compliance software being run on Customer systems. The Customer hereby agrees to cooperate with the audit in good faith, to grant Axway access to all relevant information and to provide copies of relevant information on request. In addition, Customer agrees, upon request by Axway from time to time, to provide Axway with a written report, certified by an officer, stating the physical Site(s) and computer systems with respect to which Customer is using the Licensed Component.

ARTICLE 22 EXPORT
Customer shall not export, ship, transmit or re-export the Products or Documentation in violation of any applicable law or regulation.

ARTICLE 23 THIRD PARTY SOFTWARE
Certain Third Party Software may be provided with the Licensed Component(s) that is subject to the accompanying license(s), if any, of its respective owner(s). To the extent portions of the Software are distributed under and subject to open source licenses obligating Axway to make the source code for such portions publicly available (such as the GNU General Public License ("GPL") or the GNU Library General Public License ("LGPL")), Axway will make such source code portions (including Axway modifications, as appropriate) available upon request for a period of up
to three (3) years from the date of distribution. Such request can be made in writing to Axway Software - Tour W, 102 Terrasse Boieldieu, 92085 Paris La Defense Cedex, France ATTN: Legal Department. Customer may obtain a copy of the GPL at http://www.gnu.org/licenses/gpl.html, and a copy of the LGPL at http://www.gnu.org/licenses/lgpl.html.

ARTICLE 24 - NOTICES
All notices, demands, consents, approvals and other communications shall be sufficient if in writing and sent by facsimile transmission (with a hard copy mailed on the same date) or registered or certified mail, return receipt requested, postage prepaid, or overnight courier service to the other party at its address set out in the Order Form or to such other superseding notice address that it has subsequently provided to other Party in writing. Each such notice shall be deemed to have been served: in the case of by hand and special delivery, when actually received; or if posted by recorded delivery shall be deemed to have been accepted on the expiry of forty eight (48) hours after posting and on proving posting it shall be sufficient to produce a copy of the notice properly addressed with the relevant post office receipt for its dispatch by recorded delivery.

ARTICLE 25  GOVERNING LAW and DISPUTES
25.1. This Agreement will be governed by and interpreted in accordance with the laws of England and Wales. Should any dispute arise, the Parties will use all reasonable efforts to attempt to resolve the dispute in good faith by senior level negotiations. The dispute shall be referred by a written request to an officer of each Party who has authority to resolve the dispute and who is not directly involved with the subject matter of this Agreement who shall meet within fifteen (15) days from the dispatch of the written request in order to attempt to resolve the dispute. 25.2. If the dispute is not resolved through negotiation, both Parties agree that the Courts of England will have exclusive jurisdiction in connection with the resolution of the dispute. The United Nations Convention on the International Sale of Goods shall not apply to this Agreement.

ATTACHMENT A ADDITIONAL DEFINITIONS
To the extent used in the Order Forms pursuant to this Agreement, the following definitions have the following meanings: Active (Production) License means a license for Use of the Product in a production environment. An Active/Active configuration refers to a shared cluster configuration whereby applications and data are simultaneously available to all server Instances in the cluster. Consequently, Active/Active clusters support high availability; Computer means one or a group of physical hardware machines processing data and hosting the running of one or more operating systems as defined in the Order Form; Core means the main part of CPU that interprets the instructions and performs the binary calculations. Every CPU has at least one Core, but can be composed of several Cores. If the right of Use is based on Cores and if the Licensed Component is used on a single computer with multiple Cores, the Core license must correspond with the number of respective Cores contained within such Computer CPU (Central Processing Unit) means a functional unit in a computer that interprets and executes instructions. If the right of Use is based on CPUs and if the Licensed Component is used on a single computer with multiple CPUs, the CPU license must correspond with the number of respective CPUs contained within such Computer Instance means a single occurrence of a Licensed Component. For clarification, if Customer has purchased only one Active Production Instance, Customer may run a single occurrence of the Licensed Component in RAM (Random Access Memory); Named User means a physical person susceptible to establish a session with the Licensed Component; Node means a running instance of an Axway program, i.e. a JVM (Java Virtual Machine) running an Axway application; Partition means a reserved part of the resources of an Operating Environment that is set aside for a specific purpose; Such as: Capped-Partition means the Sub-Capacity Partition using a determined maximum subset of the resources of an Operating Environment. Floating Partition means the Sub-Capacity Partition using a dynamically allocated subset of the resources of an Operating Environment. The maximum
potential of resources used by a Sub-Capacity Partition equals the overall resources of the Operating Environment; Full-Capacity Partition means a Partition using all the resources of an Operating Environment. There can only be one Full-Capacity Partition per Operating Environment. If there is another partition, then both Partitions are Sub-Capacity Partitions; Sub-Capacity Partition means a partition using a subset of the resources of an Operating Environment; Passive (Non-Production) License refers to a cluster fail over or disaster recovery software architecture. The passive software doesn’t execute unless the licensed production copy of the Licensed Component fails. Where Customer is not able to use its licensed production copy of the Licensed Component in the event of fail over, the Passive license will start executing after a service interruption. A Passive License may also include those for test, development, archiving or quality control/quality assurance; User means, unless otherwise stated in the applicable Order: (a) with respect to all Products other than Products that are part of Axways Validation Authority or SecureTransport product suites, any person who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; (b) with respect to any Product included in Axways SecureTransport product suite, any person or system who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; and (c) with respect to any Product included in Axways Validation Authority product suite, any Validation Authority User. Validation Authority User means any Human User, Group User or Non-Human User. Human User means, with respect to the applicable Product included in Axways Validation Authority product line, any human who has one or more associated digital certificates associated with such human that: (i) uniquely identify such human; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product. Group User means, with respect to the applicable Product included in Axways Validation Authority product line, any group of humans that has one or more associated digital certificates that: (i) uniquely identify such group; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product. Non-Human User means, with respect to the applicable Product included in Axways Validation Authority product line, anything other than a Human User or Group User (such as a device) that has one or more associated digital certificates that: (i) uniquely identify such Non-Human; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product.

1.475 hardlink 1.0 19.el7
1.475.1 Available under license :
From RPM File Metadata:GPL+

1.476 spring-beans 5.2.10.RELEASE
1.476.1 Available under license :
No license file was found, but licenses were detected in source scan.

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* limitations under the License.
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jar/org/springframework/beans/factory/support/AutowireUtils.java
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1135892324_1613626850.84/0/spring-beans-5-2-10-release-sources-jar/org/springframework/beans/factory/serviceprovider/AbstractServiceProvider.java
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1.478 protobuf-javanano 3.0.0-alpha-5

1.479 jackc-pgx v4.10.1

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1.480 jackson-databind 2.6.3

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# Jackson JSON processor

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1.481 plexus-classworlds 2.2.3

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jar/org/codehaus/classworlds/ClassRealm.java
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* /opt/cola/permits/1113059461_1607376775.25/0/plexus-classworlds-2-2-3-sources-1-jar/org/codehaus/plexus/classworlds/realm/DuplicateRealmException.java
* /opt/cola/permits/1113059461_1607376775.25/0/plexus-classworlds-2-2-3-sources-1-jar/org/codehaus/plexus/classworlds/launcher/Configurator.java
* /opt/cola/permits/1113059461_1607376775.25/0/plexus-classworlds-2-2-3-sources-1-jar/org/codehaus/plexus/classworlds/launcher/ConfigurationParser.java
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* /opt/cola/permits/1113059461_1607376775.25/0/plexus-classworlds-2-2-3-sources-1-jar/org/codehaus/plexus/classworlds/strategy/StrategyFactory.java
* /opt/cola/permits/1113059461_1607376775.25/0/plexus-classworlds-2-2-3-sources-1-jar/org/codehaus/plexus/classworlds/launcher/ConfigurationException.java
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* /opt/cola/permits/1113059461_1607376775.25/0/plexus-classworlds-2-2-3-sources-1-jar/org/codehaus/plexus/classworlds/strategy/AbstractStrategy.java

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  jar/io/netty/buffer/LongLongHashMap.java
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  jar/io/netty/buffer/LongPriorityQueue.java
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  jar/io/netty/buffer/search/package-info.java
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  jar/io/netty/buffer/SizeClasses.java
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* /opt/cola/permits/1167152986_1621579308.46/0/netty-buffer-4-1-65-final-sources-
jar/io/netty/buffer/search/SearchProcessor.java
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signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
 <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
 <xsl:param name="product"/>
 <xsl:param name="version"/>
 <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
 <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />
 <xsl:template match="/">
 <html>
 <head>
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
 <link rel="stylesheet" type="text/css" href="licenses.css"/>
 </head>
 <body>
 <p>The following material has been provided for informational purposes only, and should not be relied upon or construed as a legal opinion or legal advice.</p>
 <!-- Read matching templates -->
<table>
<thead>
<tr>
<th>Package</th>
<th>Package Artifact</th>
<th>Package Version</th>
<th>Remote Licenses</th>
<th>Local Licenses</th>
</tr>
</thead>
</table>

```xml
<table>
  <thead>
    <tr>
      <th>Package</th>
      <th>Package Artifact</th>
      <th>Package Version</th>
      <th>Remote Licenses</th>
      <th>Local Licenses</th>
    </tr>
  </thead>
  <tbody>
    <xsl:for-each select="licenseSummary/dependencies/dependency">
      <xsl:sort select="concat(groupId, '.', artifactId)"/>
      <tr>
        <td><xsl:value-of select="concat(groupId, packageName)" /></td>
        <td><xsl:value-of select="artifactId" /></td>
        <td><xsl:value-of select="version" /></td>
        <td>
          <xsl:for-each select="licenses/license">
            <a href="{$filename}"><xsl:value-of select="name" /></a>
          </xsl:for-each>
        </td>
        <td>
          <xsl:for-each select="licenses/license">
            <xsl:variable name="name" select="translate(name,$uppercase,$lowercase)" />
            <xsl:variable name="last-index" select="last-index-of($txt,$delimiter)" />
            <xsl:variable name="prefix" select="concat($name,' - ')" />
            <xsl:variable name="postfix" select="substring($txt,($last-index+1))" />
            <xsl:variable name="filename" select="concat($prefix,translate($postfix,$uppercase,$lowercase))" />
            <a href="{$filename}" /></xsl:for-each>
        </td>
      </tr>
    </xsl:for-each>
  </tbody>
</table>
```
<xsl:param name="remainder" select="$txt"/>
<xsl:param name="delimiter" select=""/>

<xsl:choose>
  <xsl:when test="contains($remainder, $delimiter)">
    <xsl:call-template name="last-index-of">
      <xsl:with-param name="txt" select="$txt"/>
      <xsl:with-param name="remainder" select="substring-after($remainder, $delimiter)"/>
      <xsl:with-param name="delimiter" select="$delimiter"/>
    </xsl:call-template>
  </xsl:when>
  <xsl:otherwise>
    <xsl:variable name="lastIndex" select="string-length(substring($txt, 1, string-length($txt)-string-length($remainder)))+1"/>
    <xsl:choose>
      <xsl:when test="string-length($remainder)=0">
        <xsl:value-of select="string-length($txt)"/>
      </xsl:when>
      <xsl:when test="$lastIndex>0">
        <xsl:value-of select="($lastIndex - string-length($delimiter))"/>
      </xsl:when>
      <xsl:otherwise>
        <xsl:value-of select="0"/>
      </xsl:otherwise>
    </xsl:choose>
  </xsl:otherwise>
</xsl:choose>

<xsl:template name="remap-local-filename">
  <xsl:param name="filename"/>
  <xsl:choose>
    <xsl:when test="contains($filename, 'bsd') and contains($filename, '2-clause')">
      <xsl:text>bsd-2-clause.txt</xsl:text>
    </xsl:when>
    <xsl:when test="contains($filename, 'bsd') and contains($filename, '3-clause')">
      <xsl:text>bsd 3-clause new or revised license.html</xsl:text>
    </xsl:when>
    <xsl:when test="contains($filename, 'apache') and contains($filename, '1.1')">
      <xsl:text>apache-1.1.txt</xsl:text>
    </xsl:when>
    <xsl:when test="contains($filename, 'apache') and contains($filename, '2.0')">
      <xsl:text>apache license 2.0.txt</xsl:text>
    </xsl:when>
    <xsl:when test="contains($filename, 'jsr-000107')">
      <xsl:text>apache license 2.0.txt</xsl:text>
    </xsl:when>
    <xsl:when test="contains($filename, 'cddl') and contains($filename, 'gplv2')">
      <xsl:text>cddl-gplv2-classpath.txt</xsl:text>
    </xsl:when>
  </xsl:choose>
</xsl:template>

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1.498 websocket-common 9.3.9.v20160517

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```javascript
Kotlin.equals = function (obj1, obj2) {
    if (obj1 == null) {
        return obj2 == null;
    }

    if (obj2 == null) {
        return false;
    }

    if (typeof obj1 !== "object" && typeof obj1.equals !== "function") {
        return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2);
    }

    if (typeof obj1 === "object" && typeof obj1.equals === "function") {
        return obj1.equals(obj2);
    }

    if (typeof obj1 === "number" && typeof obj2 === "number") {
        return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2);
    }

    return obj1 === obj2;
};

Kotlin.hashCode = function (obj) {
    if (obj == null) {
        return 0;
    }

    var objType = typeof obj;
    if ("object" === objType) {
        return "function" === typeof obj.hashCode ? obj.hashCode() : Kotlin.hashCode(obj);
    }

    if ("function" === objType) {
        return Kotlin.hashCode(obj);
    }

    if ("number" === objType) {
        return Kotlin.numberHashCode(obj);
    }

    if ("boolean" === objType) {
        return Number(obj);
    }

    var str = String(obj);
    return Kotlin.getStringHashCode(str);
};

Kotlin.toString = function (o) {
    if (o == null) {
        return "null";
    }

    if (Kotlin.isArrayish(o)) {
        return "[...]";
    }

    return o.toString();
};

/** @const */
var POW_2_32 = 4294967296; // TODO: consider switching to Symbol
/** @const */
var OBJECT_HASH_CODE_PROPERTY_NAME = "kotlinHashCodeValue$";

function getObjectHashCode(obj) {
    if (OBJECT_HASH_CODE_PROPERTY_NAME in obj) {
        return obj[OBJECT_HASH_CODE_PROPERTY_NAME];
    }

    var hash = (Math.random() * POW_2_32) | 0; // Make 32-bit signed integer.
    Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, {
        value: hash,
        enumerable: false
    });

    return obj[OBJECT_HASH_CODE_PROPERTY_NAME];
}

function getStringHashCode(str) {
    var hash = 0;
    for (var i = 0; i < str.length; i++) {
        var code = str.charCodeAt(i);
        hash = (hash * 31 + code) | 0; // Keep it 32-bit.
    }

    return hash;
}

Kotlin.identityHashCode = getObjectHashCode;
```

---

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Converts this number value to 'Long'.

* The fractional part, if any, is rounded down towards zero.
* Returns zero if this 'Double' value is 'NaN', 'Long.MIN_VALUE' if it's less than 'Long.MIN_VALUE', 'Long.MAX_VALUE' if it's bigger than 'Long.MAX_VALUE'.
* @param {number} value The number in question.
* @return {!Kotlin.Long} The corresponding Long value.
*/
Kotlin.Long.fromNumber = function(value) {
  if (isNaN(value)) {
    return Kotlin.Long.ZERO;
  } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MIN_VALUE;
  } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MAX_VALUE;
  } else if (value < 0) {
    return Kotlin.Long.fromNumber(-value).negate();
  } else {
    return new Kotlin.Long((value % Kotlin.Long.TWO_PWR_32_DBL_) | 0, (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);
  }
};

/**
 * Returns a Long representing the 64-bit integer that comes by concatenating
 * the given high and low bits. Each is assumed to use 32 bits.
 * @param {number} lowBits The low 32-bits.
 * @param {number} highBits The high 32-bits.
 * @return {!Kotlin.Long} The corresponding Long value.
 */
Kotlin.Long.fromBits = function(lowBits, highBits) {
  return new Kotlin.Long(lowBits, highBits);
};

/**
 * Returns a Long representation of the given string, written using the given
 * radix. The textual representation of the Long.
 * @param {string} str The textual representation of the Long.
 * @param {number=} opt_radix The radix in which the text is written.
 * @return {!Kotlin.Long} The corresponding Long value.
 */
Kotlin.Long.fromString = function(str, opt_radix) {
  if (str.length == 0) {
    throw Error('number format error: empty string');
  }

  var radix = opt_radix || 10;
  if (radix < 2 || 36 < radix) {
    throw Error('radix out of range: ' + radix);
  }

  if (str.charAt(0) == '-') {
    return Kotlin.Long.fromString(str.substring(1), radix).negate();
  } else if (str.indexOf('-') >= 0) {
    throw Error('number format error: interior "-" character: ' + str);
  }

  // Do several (8) digits each time through the loop, so as to minimize
  // the compiler should inline these constant values below and then remove
  // the variables, so there should be no runtime penalty for these.
  var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 8));

  var result = Kotlin.Long.ZERO;
  for (var i = 0; i < str.length; i += 8) {
    var size = Math.min(8, str.length - i);
    var value = parseInt(str.substring(i, i + size), radix);
    if (size < 8) {
      var power = Kotlin.Long.fromNumber(Math.pow(radix, size));
      result = result.multiply(power).add(Kotlin.Long.fromNumber(value));
    } else {
      result = result.multiply(radixToPower);
      result = result.add(Kotlin.Long.fromString(Number(str.substring(i, i + size)), radix));
    }
  }
  return result;
};

// NOTE: the compiler should inline these constant values below and then remove
// these variables, so there should be no runtime penalty for these.

/**
 * Number used repeated below in calculations.
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;

/**
 * @type {number}
 * @private
 */

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_31_DBL_ = Kotlin.Long.TWO_PWR_32_DBL_ / 2;

/**
 * @type {number}
 * @private
 */

/**
 * @type {number}
 * @private
 */

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_63_DBL_ = Kotlin.Long.TWO_PWR_64_DBL_ / 2;

/**
 * @type {number}
 * @private
 */
Kotlin.Long.ZERO = Kotlin.Long.fromInt(0);

/**
 * @type {number}
 * @private
 */
Kotlin.Long.ONE = Kotlin.Long.fromInt(1);

/**
 * @type {number}
 * @private
 */
Kotlin.Long.MAX_VALUE = Kotlin.Long.TWO_PWR_63_DBL_;
this.getLowBitsUnsigned();\n};\n/** @return {number} The 32-bit hashCode of this value. */
Kotlin.Long.prototype.hashCode = function() {
  return this.high_ ^ this.low_;\n};

/**
 * @param {number=} opt_radix The radix in which the text should be written.\n */\nKotlin.Long.prototype.toString = function(opt_radix) {
  var radix = opt_radix || 10;\n  var rem = div.multiply(radixLong).subtract(this);\n  var div = this.div(radixLong);\n  var rem = this.multiply(radixLong).subtract(div);\n  var result = '' + rem.toString(radix);\n  return result;\n};


/**
 * @return {number} The 32-bit hashCode of this value. */
Kotlin.Long.prototype.getLowBits = function() {
  return this.low_;\n};


/** @return {number} The low 32-bits as an unsigned value. */
Kotlin.Long.prototype.getLowBitsUnsigned = function() {
  return (this.low_ >= 0) ?
      this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};


/**
 * @return {number} Returns the number of bits needed to represent the absolute
 *     value of this Long.\n */
Kotlin.Long.prototype.getNumBitsAbs = function() {
  if (this.isNegative()) {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return 64;
    } else {
      return this.negate().getNumBitsAbs();\n    }
  } else {
    var val = this.high_ != 0 ? this.high_ : this.low_;\n    for (var bit = 31; bit > 0; bit--) {
      if ((val & (1 << bit)) != 0) {
        break;\n      }\n    }\n    return this.high_ <= 0 ? bit + 33
        : bit + 1;\n  }\n};


/**
 * @return {boolean} Whether this value is zero. */
Kotlin.Long.prototype.isZero = function() {
  return this.high_ == 0 && this.low_ == 0;\n};


/** @return {boolean} Whether this value is
 *     negative.\n */
Kotlin.Long.prototype.isNegative = function() {
  return this.high_ < 0;\n};


/** @return {boolean} Whether this value is odd. */
Kotlin.Long.prototype.isOdd = function() {
  return (this.low_ & 1) == 1;\n};


/**
 * @return {number} The high 32-bits as a signed value. */
Kotlin.Long.prototype.getHighBits = function() {
  return this.high_;\n};


/**
 * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long equals the other.\n */
Kotlin.Long.prototype.equalsLong = function(other) {
  return (this.high_ == other.high_) && (this.low_ == other.low_);\n};


/**
 * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long does not equal the other.\n */
Kotlin.Long.prototype.notEqualsLong = function(other) {
  return (this.high_ != other.high_) || (this.low_ != other.low_);\n};


/**
 * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than the other.\n */
Kotlin.Long.prototype.lessThan = function(other) {
  return this.compare(other) < 0;\n};


/**
 * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than or equal to the other.\n */
Kotlin.Long.prototype.lessThanOrEqual = function(other) {
  return this.compare(other) <= 0;\n};


/**
 * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than the other.\n */
Kotlin.Long.prototype.greaterThan = function(other) {
  return this.compare(other) > 0;\n};


/**
 * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than or equal to the other.\n */
Kotlin.Long.prototype.greaterThanOrEqual = function(other) {
  return this.compare(other) >= 0;\n};


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same, so subtraction will not overflow
if (this.subtract(other).isNegative()) { return -1; } else { return 1; }
} /** @return {!Kotlin.Long} The negation of this value. */
Kotlin.Long.prototype.negate = function() { if (this.equalsLong(Kotlin.Long.MIN_VALUE)) { return Kotlin.Long.ZERO; } else {
  return this.not().add(Kotlin.Long.ONE);
}
}/**
 * @return {!Kotlin.Long} The sum of this and the given Long.
 */
Kotlin.Long.prototype.add = function(other) { // Divide each number into 4 chunks of 16 bits, and then sum the chunks.
  var a48 = this.high_ >>> 16;
  var a32 = this.high_ & 0xFFFF;
  var a16 = this.low_ >>> 16;
  var a00 = this.low_ & 0xFFFF;
  var b48 = other.high_ >>> 16;
  var b32 = other.high_ & 0xFFFF;
  var b16 = other.low_ >>> 16;
  var b00 = other.low_ & 0xFFFF;
  var c48 = 0, c32 = 0, c16 = 0, c00 = 0;
  c00 += a00 + b00;
  c16 += c00 >> 16;
  c00 &= 0xFFFF;
  c16 += a16 + b16;
  c32 += c16 >> 16;
  c16 &= 0xFFFF;
  c32 += a32 + b32;
  c48 += c32 >> 16;
  c32 &= 0xFFFF;
  c48 += a48 + b48;
  c48 &= 0xFFFF;
  return Kotlin.Long.fromBits(c16 << 16) | c00, (c48 << 16) | c32);
} /** @return {!Kotlin.Long} * Returns the difference of this and the given Long.
 */
Kotlin.Long.prototype.subtract = function(other) { return this.add(other.negate());
}/**
 * Returns the product of this and the given Long.
 */
Kotlin.Long.prototype.multiply = function(other) {
  if (this.isZero()) {
    return Kotlin.Long.ZERO;
  } else if (other.isZero()) {
    return Kotlin.Long.ZERO;
  }

  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    if (other.equalsLong(Kotlin.Long.ONE) ||
        other.equalsLong(Kotlin.Long.NEG_ONE)) {
      return Kotlin.Long.MIN_VALUE;  // recall that -MIN_VALUE == MIN_VALUE
    } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return Kotlin.Long.ONE;
    } else {
      // At this point, we have |other| >= 2, so [this/other] < [MIN_VALUE].
      var halfThis = this.shiftRight(1);
      var approx = halfThis.div(other).shiftLeft(1);
      if (approx.equalsLong(Kotlin.Long.ZERO)) { return other.isNegative() ? Kotlin.Long.ONE : Kotlin.Long.ZERO; }
      else {
        var rem = this.subtract(other.multiply(approx));
        var result = approx.add(rem.div(other));
        return result;
      }
    }
  } else if (other.isNegative()) {
    return other.isNegative() ? Kotlin.Long.ZERO : this.subtract(other.multiply(approx));
  }

  if (this.isNegative()) {
    if (other.isNegative()) {
      return this.negate().multiply(other.negate());
    } else {
      return this.multiply(other.negate());
    }
  } else if (other.isNegative()) {
    return this.multiply(other.negate());
  }

  // If both longs are small, use float multiplication
  if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&
      other.lessThan(Kotlin.Long.TWO_PWR_24_)) {
    return Kotlin.Long.fromNumber(this.toNumber() * other.toNumber());
  }

  // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.
  // We can skip products that would overflow.
  var a48 = this.high_ >>> 16;
  var a32 = this.high_ & 0xFFFF;
  var a16 = this.low_ >>> 16;
  var a00 = this.low_ & 0xFFFF;
  var b48 = other.high_ >>> 16;
  var b32 = other.high_ & 0xFFFF;
  var b16 = other.low_ >>> 16;
  var b00 = other.low_ & 0xFFFF;
  var c48 = 0, c32 = 0, c16 = 0, c00 = 0;
  c00 += a00 + b00;
  c16 += c00 >> 16;
  c00 &= 0xFFFF;
  c16 += a16 + b16;
  c32 += c16 >> 16;
  c16 &= 0xFFFF;
  c32 += a32 + b32;
  c48 += c32 >> 16;
  c32 &= 0xFFFF;
  c48 += a48 + b48;
  c48 &= 0xFFFF;
  return Kotlin.Long.fromBits(c16 << 16) | c00, (c48 << 16) | c32);
} /** @return {!Kotlin.Long} * Returns this Long divided by the given one.
 */
Kotlin.Long.prototype.div = function(other) {
  if (other.isZero()) {
    throw Error('division by zero');
  } else if (this.isZero()) {
    return Kotlin.Long.ZERO;
  }

  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    if (other.equalsLong(Kotlin.Long.ONE) ||
        other.equalsLong(Kotlin.Long.NEG_ONE)) {
      return Kotlin.Long.MIN_VALUE;  // recall that -MIN_VALUE == MIN_VALUE
    } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return Kotlin.Long.ONE;
    } else {
      // At this point, we have |other| >= 2, so [this/other] < [MIN_VALUE].
      var halfThis = this.shiftRight(1);
      var approx = halfThis.div(other).shiftLeft(1);
      if (approx.equalsLong(Kotlin.Long.ZERO)) { return other.isNegative() ? Kotlin.Long.ONE : Kotlin.Long.ZERO; }
      else {
        var rem = this.subtract(other.multiply(approx));
        var result = approx.add(rem.div(other));
        return result;
      }
    }
  } else if (other.isNegative()) {
    return other.isNegative() ? Kotlin.Long.ZERO : this.subtract(other.multiply(approx));
  }

  if (this.isNegative()) {
    if (other.isNegative()) {
      return this.negate().multiply(other.negate());
    } else {
      return this.multiply(other.negate());
    }
  } else if (other.isNegative()) {
    return this.multiply(other.negate());
  }

  // If both longs are small, use float multiplication
  if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&
      other.lessThan(Kotlin.Long.TWO_PWR_24_)) {
    return Kotlin.Long.fromNumber(this.toNumber() * other.toNumber());
  }

  // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.
  // We can skip products that would overflow.
  var a48 = this.high_ >>> 16;
  var a32 = this.high_ & 0xFFFF;
  var a16 = this.low_ >>> 16;
  var a00 = this.low_ & 0xFFFF;
  var b48 = other.high_ >>> 16;
  var b32 = other.high_ & 0xFFFF;
  var b16 = other.low_ >>> 16;
  var b00 = other.low_ & 0xFFFF;
  var c48 = 0, c32 = 0, c16 = 0, c00 = 0;
  c00 += a00 + b00;
  c16 += c00 >> 16;
  c00 &= 0xFFFF;
  c16 += a16 + b16;
  c32 += c16 >> 16;
  c16 &= 0xFFFF;
  c32 += a32 + b32;
  c48 += c32 >> 16;
  c32 &= 0xFFFF;
  c48 += a48 + b48;
  c48 &= 0xFFFF;
  return Kotlin.Long.fromBits(c16 << 16) | c00, (c48 << 16) | c32);
}
// Repeat the following until the remainder is less than other: find an // floating-point that approximates remainder / other * from below*, add this \n // to the result, and subtract it from the remainder. It is critical that \n // the approximate value is less than or equal to the real value so that the \n // remainder never becomes negative. \n var res = Kotlin.Long.ZERO; \n var rem = this; \n while (rem.greaterThanOrEqual(other)) { \n   \n   // We will tweak the approximate result by changing it in the 48-th digit or \n   // the smallest non-fractional digit, whichever is larger. \n   var log2 = Math.ceil(Math.log(approx) / Math.LN2); \n   var delta = (log2 <= 48) ? 1 : \n     Math.pow(2, log2 - 48); \n   // Decrease the approximation until it is smaller than the remainder. Note \n   // that if it is too large, the product overflows and is negative. \n   var approxRes = Kotlin.Long.fromNumber(approx); \n   var approxRem = approxRes.multiply(other); \n   while (approxRem.isNegative() || approxRem.greaterThan(rem)) { \n     approx -= delta; \n     approxRes = Kotlin.Long.fromNumber(approx); \n     approxRem = approxRes.multiply(other); \n   } \n   \n   // We know the answer can't be zero... and actually, zero would cause \n   // infinite recursion since we would make no progress. \n   if (approxRem.isZero()) { \n     approxRem = Kotlin.Long.ONE; \n   } \n   rem = rem.subtract(approxRem); \n   res = res.add(approxRes); \n } \n \n /** \n * Returns this Long modulo the given one. \n * @param {Kotlin.Long} other Long by which to mod. \n * @return {Kotlin.Long} This Long modulo the given one. \n */ \nKotlin.Long.prototype.modulo = function(other) { \n  return this.subtract(this.div(other).multiply(other)); \n}; \n
/** @return {Kotlin.Long} The bitwise-NOT of this value. \n */ \nKotlin.Long.prototype.not = function() { \n  return Kotlin.Long.fromBits(~this.low_ , \n    ~this.high_); \n}; \n
/** \n * Returns the bitwise-AND of this Long and the given one. \n * @param {Kotlin.Long} other The Long with which to AND. \n * @return {Kotlin.Long} The bitwise-AND of this and the other. \n */ \nKotlin.Long.prototype.and = function(other) { \n  return Kotlin.Long.fromBits(this.low_ & other.low_, \n    this.high_ & other.high_); \n}; \n
/** \n * Returns the bitwise-XOR of this Long and the given one. \n * @param {Kotlin.Long} other The Long with which to XOR. \n * @return {Kotlin.Long} The bitwise-XOR of this and the other. \n */ \nKotlin.Long.prototype.xor = function(other) { \n  return Kotlin.Long.fromBits(this.low_ ^ other.low_, \n    this.high_ ^ other.high_); \n}; \n
/** \n * Returns this Long with bits shifted to the left by the given amount. \n * @param {number} numBits The number of bits by which to shift. \n * @return {Kotlin.Long} This shifted to the left by the given amount. \n */ \nKotlin.Long.prototype.shiftLeft = function(numBits) { \n  numBits &= 63; \n  if (numBits == 0) { \n    return this; \n  } else { \n    var low = this.low_ ; \n    if (numBits < 32) { \n      var high = this.high_; \n      return Kotlin.Long.fromBits(\n        low << numBits,\n        high); \n    } else { \n      return Kotlin.Long.fromBits(0, low << (numBits - 32)); \n    } \n  } \n}; \n
/** \n * Returns this Long with bits shifted to the right by the given amount. \n * @param {number} numBits The number of bits by which to shift. \n * @return {Kotlin.Long} This shifted to the right by the given amount. \n */ \nKotlin.Long.prototype.shiftRight = function(numBits) { \n  numBits &= 63; \n  if (numBits == 0) { \n    return this; \n  } else { \n    var high = this.high_; \n    if (numBits < 32) { \n      var low = this.low_; \n      return Kotlin.Long.fromBits(\n        low >>> numBits,\n        high); \n    } else { \n      return Kotlin.Long.fromBits(high >> (numBits - 32), \n        high); \n    } \n  } \n};
Kotlin
Kotlin.Long.prototype.equals = function (other) {
    return other instanceof Kotlin.Long &&
    this.equalsLong(other);
};

Kotlin.Long.prototype.compare = function (other) {
    return this.add(Kotlin.Long.ONE).compareTo(other);
};

Kotlin.Long.prototype.inc = function () {
    return this.add(Kotlin.Long.ONE);
};

Kotlin.Long.prototype.dec = function () {
    return this.add(Kotlin.Long.NEG_ONE);
};

Kotlin.Long.prototype.valueOf = function () {
    return this.toNumber();
};

Kotlin.Long.prototype.unaryPlus = function () {
    return this;
};

Kotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;

Kotlin.Long.prototype.inv = Kotlin.Long.prototype.not;

Kotlin.Long.prototype.rangeTo = function (other) {
    return new Kotlin.kotlin.ranges.LongRange(this, other);
};

Kotlin.compareTo = function (a, b) {
    var typeA = typeof a;
    if (typeA === "number") {
        if (typeof b === "number") {
            return Kotlin.doubleCompareTo(a, b);
        }
        return Kotlin.primitiveCompareTo(a, b);
    }
    if (typeA === "string" || typeA === "boolean") {
        return Kotlin.primitiveCompareTo(a, b);
    }
    return a.compareTo(b);
};

Kotlin.doubleCompareTo = function (a, b) {
    if (a < b) return -1;
    if (a > b) return 1;

    if (a === b) {
        if (a !== 0) return 0;

        var ia = 1 / a;
        return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);
    }

    return a !== a ? (b !== b ? 0 : 1) : -1;
};

Kotlin.doubleToBits = function (value) {
    return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);
};

Kotlin.doubleToRawBits = function (value) {
    var buf = new ArrayBuffer(8);
    var bufFloat64 = new Float64Array(buf);
    var bufInt32 = new Int32Array(buf);
    var lowIndex = 0;
    var highIndex = 1;

    bufFloat64[0] = -1; // bff00000_00000000
    if (bufInt32[lowIndex] !== 0) {
        lowIndex = 1;
        highIndex = 0;
    }

    return Kotlin.doubleCompareTo(a, b);
};

Kotlin.doubleFromBits = function (value) {
    bufInt32[lowIndex] = value.low_;
    bufInt32[highIndex] = value.high_;
    return bufFloat64[0];
};

Kotlin.charInc = function (value) {
    return Kotlin.toChar(value + 1);
};

Kotlin.charDec = function (value) {
    return Kotlin.toChar(value - 1);
};

Kotlin.charFromBits = function (value) {
    return value;
};

Kotlin.toChar = function (value) {
    return value.toString();
};

Kotlin.valueOf = function (value) {
    return value.toString();
};
if (typeof TypedArray.prototype.map === "undefined") {
    Object.defineProperty(TypedArray.prototype, 'map', {
        value: function(array) {
            return apply.call(this, self, [].slice.call(array));
        }
    });
}

// Patch map to Function.prototype.apply;
        Object.defineProperty(Function.prototype, 'apply', {
            value: function(self, arguments) {
                try {
                    (function() {}).apply(null, new Int32Array(0))
                } catch (e) {
                    var apply = (function() {});
                    Object.defineProperty(apply, 'apply', {
                        value: apply
                    });
                }
            }
        });

    if (typeof Math.abs === "undefined") {
        Math.abs = function(x) {
            return x < 0 ? -x : x;
        }
    }
    if (typeof Math.ceil === "undefined") {
        Math.ceil = function(x) {
            return Math.round(x);
        }
    }
    if (typeof Math.floor === "undefined") {
        Math.floor = function(x) {
            return Math.round(x) - (x > 0 ? 1 : 0);
        }
    }
    if (typeof Math.max === "undefined") {
        Math.max = function(x, y) {
            return x > y ? x : y;
        }
    }
    if (typeof Math.min === "undefined") {
        Math.min = function(x, y) {
            return x < y ? x : y;
        }
    }
    if (typeof Math.pow === "undefined") {
        Math.pow = function(x, y) {
            return Math.exp(y * Math.log(x));
        }
    }
    if (typeof Math.sqrt === "undefined") {
        Math.sqrt = function(x) {
            return Math.pow(x, 0.5);
        }
    }
    if (typeof Math.sin === "undefined") {
        Math.sin = function(x) {
            return Math.pow(Math.sin(x / 2), 2) / Math.pow(Math.cos(x / 2), 2);
        }
    }
    if (typeof Math.tan === "undefined") {
        Math.tan = function(x) {
            return Math.sin(x) / Math.cos(x);
        }
    }
    if (typeof Math.atan === "undefined") {
        Math.atan = function(x) {
            return Math.acos(-1); // approximation by taylor series in y at 0
        }
    }
    if (typeof Math.atan2 === "undefined") {
        Math.atan2 = function(x, y) {
            return Math.atan(x / y);
        }
    }
    if (typeof Math.log === "undefined") {
        Math.log = function(x) {
            return Math.log2(x) * Math.LN2;
        }
    }
    if (typeof Math.E === "undefined") {
        Math.E = 2.7182818284590452353602874713526624977572470936999595749679693845667766656938458\n            45925016495356975098876801568824970097017861397837078\n            08597347297212747539904052253500176128148024317466\n            202145460691489085779172361113631674535866061251\n            26530602122489807756808723011715094201948857601569\n            05820987673296192798697275670062996139341031487323\n            569311332980820874762435892712118013232566281080``
Kotlin Programming Language contributors.

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```kotlin
package kotlin

public class Enum<T : Enum<T>> : Comparable<Enum<T>> {
    @JsName("name$") private var _name: String = ""
    @JsName("ordinal$")
    private var _ordinal: Int = 0

    val name: String
        get() = _name

    val ordinal: Int
        get() = _ordinal

    override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)

    override fun equals(other: Any?) = this === other

    override fun hashCode(): Int = js("Kotlin.identityHashCode"){this}

    override fun toString() = name

    companion object
}
```

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)  4309
get(3)\n}*\n* Returns 4th *element* from the array.\n* \n* If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun ByteArray.component4(): Byte {\n    return get(3)\n}*\n* Returns 4th *element* from the array.\n* \n* If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun ShortArray.component4(): Short {\n    return get(3)\n}*\n* Returns 4th *element* from the array.\n* \n* If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun IntArray.component4(): Int {\n    return get(3)\n}*\n* Returns 4th *element* from the array.\n* \n* If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun LongArray.component4(): Long {\n    return get(3)\n}*\n* Returns 4th *element* from the array.\n* \n* If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun FloatArray.component4(): Float {\n    return get(3)\n}*\n* Returns 4th *element* from the array.\n* \n* If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun DoubleArray.component4(): Double {\n    return get(3)\n}*\n* Returns 4th *element* from the array.\n* \n* If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun BooleanArray.component4(): Boolean {\n    return get(3)\n}*\n* Returns 4th *element* from the array.\n* \n* If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun CharArray.component4(): Char {\n    return get(4)\n}*\n* Returns 5th *element* from the array.\n* \n* If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun <T> Array<out T>.component5(): T {\n    return get(4)\n}*\n* Returns 5th *element* from the array.\n* \n* If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun ByteArray.component5(): Byte {\n    return get(4)\n}*\n* Returns 5th *element* from the array.\n* \n* If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun ShortArray.component5(): Short {\n    return get(4)\n}*\n* Returns 5th *element* from the array.\n* \n* If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun IntArray.component5(): Int {\n    return get(4)\n}*\n* Returns 5th *element* from the array.\n* \n* If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun LongArray.component5(): Long {\n    return get(4)\n}*\n* Returns 5th *element* from the array.\n* \n* If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun FloatArray.component5(): Float {\n    return get(4)\n}*\n* Returns 5th *element* from the array.\n* \n* If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun DoubleArray.component5(): Double {\n    return get(4)\n}*\n* Returns 5th *element* from the array.\n* \n* If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n* where the behavior is unspecified.\n*\n@kotlin.internal.InlineOnly\n*public inline operator fun BooleanArray.component5(): Boolean {\n    return
samples.collections.Collections.Elements.elementAtOrNull */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.elementAtOrNull(index: Int): Double? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or ‘null’ if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.elementAtOrNull(index: Int): Boolean? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or ‘null’ if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.elementAtOrNull(index: Int): Char? {
    return this.getOrNull(index)
}

/**
 * Returns the first element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.find(predicate: (Long) -> Boolean): Long? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {
    return firstOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline function LongArray.findLast(predicate: (Long) -> Boolean): Long? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline function FloatArray.findLast(predicate: (Float) -> Boolean): Float? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline function DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {
    return lastOrNull(predicate)
}
the given [predicate], or ‘null’ if no such element was found.

```kotlin
CharArray.findLast(predicate: (Char) -> Boolean): Char? {
    return lastOrNull(predicate)
}

public inline fun <T> Array<out T>.first(): T {
    return this[0]
}

@throws [NoSuchElementException] if the array is empty.

```
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)
@kotlin.internal.InlineOnly

public inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

public fun ShortArray.indexOf(element: Short): Int {
    for (index in 0..lastIndex) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */

@kotlin.internal.InlineOnly

public inline fun LongArray.getOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun BooleanArray.getOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun CharArray.getOrNull(index: Int): Char? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

@kotlin.internal.InlineOnly

public inline fun ByteArray.getOrNull(index: Int): Byte? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

@kotlin.internal.InlineOnly

public inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@kotlin.internal.InlineOnly

public inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
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```kotlin
/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
public inline fun <T>
```
**\n/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun ByteArray.random(): Byte {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun ShortArray.random(): Short {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun IntArray.random(): Int {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun LongArray.random(): Long {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun FloatArray.random(): Float {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun DoubleArray.random(): Double {
    return random(Random)
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun <T> Array<out T>.random(random: Random): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun ByteArray.random(random: Random): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun ShortArray.random(random: Random): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun IntArray.random(random: Random): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun LongArray.random(random: Random): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun FloatArray.random(random: Random): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun DoubleArray.random(random: Random): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}
get(random.nextInt(size))

```kotlin
fun CharArray.random(random: Random): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
 */
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <T> Array<T>.randomOrNull(random: Random): T? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array using the specified source of randomness, or ‘null’ if this array is empty.
 */
@ExperimentalStdlibApi
public inline fun <T> Array<T>.randomOrNull(random: Random): T? {
    return randomOrNull(Random)
}
```

The text continues with more code snippets and comments related to randomness generation in an array using the specified source of randomness, handling exceptions, and returning elements or null as appropriate.
element from this array, using the specified source of randomness, or `null` if this array is empty.

```kotlin
*@
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun DoubleArray.randomOrNull(random: Random): Double? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun BooleanArray.randomOrNull(random: Random): Boolean? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun CharArray.randomOrNull(random: Random): Char? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T> Array<out T>.single(): T {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
}
```

The output of the code is not provided in the image.
contains more than one matching element.

```kotlin
@Suppress("UNCHECKED_CAST")
    return single as Byte
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.

```
Returns single element, or `null` if the array is empty or has more than one element.

```kotlin
fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {
    var single: Double? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {
    var single: Boolean? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {
    var single: Float? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {
    var single: Double? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {
    var single: Boolean? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {
    var single: Float? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {
    var single: Double? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {
    var single: Boolean? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {
    var single: Float? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```

Returns single element matching the given [predicate], or `null` if element was not found or more than one element.

```kotlin
fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
```
var found = false
for (element in this) {
    if (predicate(element)) {
        if (found) return
        single = element
        found = true
    }
}
if (!found) return null

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.drop(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun ByteArray.drop(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun ShortArray.drop(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun IntArray.drop(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun LongArray.drop(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun FloatArray.drop(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun DoubleArray.drop(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun BooleanArray.drop(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun CharArray.drop(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
samples.collections.Collections.Transformations.drop\n*/\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n
samples.collections.Collections.Transformations.drop\n*/\npublic fun IntArray.dropLast(n: Int): List<Int> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n
samples.collections.Collections.Transformations.drop\n*/\npublic fun LongArray.dropLast(n: Int): List<Long> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n
samples.collections.Collections.Transformations.drop\n*/\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n
samples.collections.Collections.Transformations.drop\n*/\npublic fun DoubleArray.dropLast(n: Int): List<Double> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n
samples.collections.Collections.Transformations.drop\n*/\npublic fun BooleanArray.dropLast(n: Int): List<Boolean> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n
samples.collections.Collections.Transformations.drop\n*/\npublic fun CharArray.dropLast(n: Int): List<Char> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}
(Float) -> Boolean): List<Float> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return take(index + 1) } } return emptyList() } * Returns a list containing all elements except last elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.dropn */unpubilce inline fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return take(index + 1) } } return emptyList() } * Returns a list containing all elements except last elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.dropn */unpubilce inline fun CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return take(index + 1) } } return emptyList() } * Returns a list containing all elements except last elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.dropn */unpubilce inline fun BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return take(index + 1) } } return emptyList() } * Returns a list containing all elements except last elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.dropn */unpubilce inline fun ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> { for (item in this) { if (yielding) { list.add(item) } else if (!predicate(item)) { yielding = true } } return list } * Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.dropn */unpubilce inline fun ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return take(index + 1) } } return emptyList() } * Returns a list containing all elements except last elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.dropn */unpubilce inline fun IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return take(index + 1) } } return emptyList() } * Returns a list containing all elements except last elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.dropn */unpubilce inline fun LongArray.dropLastWhile(predicate: (Long) -> Boolean): List<Long> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return take(index + 1) } } return emptyList() } * Returns a list containing all elements except last elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.dropn */unpubilce inline fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return take(index + 1) } } return emptyList() } * Returns a list containing all elements except last elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.dropn */unpubilce inline fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return take(index + 1) } } return emptyList() } * Returns a list containing all elements except last elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.dropn */unpubilce inline fun BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return take(index + 1) } } return emptyList() } * Returns a list containing all elements except last elements that satisfy the given [predicate].
val list = ArrayList<Boolean>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun CharArray.dropWhile(predicate: Char -> Boolean): List<Char> {
    var yielding = false
    val list = ArrayList<Char>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing only elements matching the given [predicate].
 */
public inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {
    return filterTo(ArrayList<T>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 */
public inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {
    return filterTo(ArrayList<Byte>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 */
public inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {
    return filterTo(ArrayList<Short>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 */
public inline fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {
    return filterTo(ArrayList<Int>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 */
public inline fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {
    return filterTo(ArrayList<Long>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 */
public inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {
    return filterTo(ArrayList<Double>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 */
public inline fun BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {
    return filterTo(ArrayList<Boolean>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 */
public inline fun CharArray.filter(predicate: (Char) -> Boolean): List<Char> {
    return filterTo(ArrayList<Char>(), predicate)
}
given [predicate].

* @param [predicate] function that takes the index of an element and the element itself

* and returns the result of predicate evaluation on the element.

/**
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* Returns a list containing only elements matching the given [predicate].

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* Returns a list containing only elements matching the given [predicate].

* @param [predicate] function that takes the index of an element and the element itself

* and returns the result of predicate evaluation on the element.
* Appends all elements matching the given [predicate] to the given [destination].

```kotlin
public inline fun <C : MutableCollection<in Boolean>>
BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {
    forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
```

* Appends all elements matching the given [predicate] to the given [destination].

```kotlin
CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
```

* Returns a list containing all elements that are instances of specified type parameter R.

```kotlin
public inline fun <reified R> Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {
    return filterIsInstanceTo(ArrayList<R>())
}
```

* Returns a list containing all elements not matching the given [predicate].

```kotlin
public inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {
    return filterNotTo(ArrayList<T>(), predicate)
}
```

* Returns a list containing all elements that are not `null`.

```kotlin
public inline fun <T : Any> Array<out T?>.filterNotNull(): List<T> {
    return filterNotNullTo(ArrayList<T>())
}
```
destination.add(element) // return destination
* Appsends all elements not matching the given [predicate] to the given [destination]

ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C

ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C

IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C

LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C

FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C

DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C

BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C

CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C

ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C

ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C

IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C

LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C

FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C

DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C

BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C

CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C
all elements matching the given [predicate] to the given [destination].

MutableCollection<in Char> filterTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

return copyOfRange(indices.start, indices.endInclusive + 1).asList()

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return copyOfRange(indices.start, indices.endInclusive + 1).asList()

return copyOfRange(indices.start, indices.endInclusive + 1).asList()
Returns an array containing elements at specified [indices].

* An public fun CharArray.slice(indices: Iterable<Int>):

ArrayList<Char>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns an array containing elements of this array at specified [indices].
 */
public fun <T> Array<T>.sliceArray(indices: Collection<Int>): Array<T> {
    val result = arrayOfNulls(this, indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex++] = this[sourceIndex]
    }
    return result
}

// Returns an array containing elements at indices in the specified [indices]
* An public fun CharArray.slice(indices: Iterable<Int>):

ArrayList<Char>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns an array containing elements of this array at specified [indices].
 */
public fun <T> Array<T>.sliceArray(indices: Collection<Int>): Array<T> {
    val result = arrayOfNulls(this, indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex++] = this[sourceIndex]
    }
    return result
}
DoubleArray.sliceArray(indices: IntRange): DoubleArray {
    if (indices.isEmpty()) return DoubleArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {
    if (indices.isEmpty()) return BooleanArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

Returns an array containing elements at indices in the specified [indices] range.

*Throws* `IllegalArgumentException` if [n] is negative.

*Throws* `IllegalArgumentException` if [n] is negative.

`return list.copyOfRange(indices.start, indices.endInclusive + 1)`

Returns a list containing first [n] elements.

*Throws* `IllegalArgumentException` if [n] is negative. 

`@throws IllegalArgumentException if [n] is negative.*

`@throws IllegalArgumentException if [n] is negative.*

`Array<T>.sliceArray(indices: IntRange): Array<T>`

Returns an array containing elements at indices in the specified [indices] range.

*Throws* `IllegalArgumentException` if [n] is negative.

`return list.copyOfRange(indices.start, indices.endInclusive + 1)`

Returns a list containing first [n] elements. 

*Throws* `IllegalArgumentException` if [n] is negative.

`return list.copyOfRange(indices.start, indices.endInclusive + 1)`

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Returns a list containing first [n] elements.

*Throws* `IllegalArgumentException` if [n] is negative.

`return list.copyOfRange(indices.start, indices.endInclusive + 1)`

Returns a list containing first [n] elements.

*Throws* `IllegalArgumentException` if [n] is negative.
List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<Char>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
} # Returns a list containing last [n] elements.

IntArray.take(n: Int): List<Integer> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Integer>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

ByteArray.take(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Byte>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

CharArray.take(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Char>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

BooleanArray.take(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Boolean>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

DoubleArray.take(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Double>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

FloatArray.take(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Float>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

LongArray.take(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Long>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

ShortArray.take(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Short>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

ByteArray.take(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Byte>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

IntArray.take(n: Int): List<Integer> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Integer>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

DoubleArray.take(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Double>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

CharArray.take(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Char>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

ByteArray.take(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Byte>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

IntArray.take(n: Int): List<Integer> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Integer>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.

ByteArray.take(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n == size) return listOf(this[size - 1])
    val list = ArrayList<Byte>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
} # Returns a list containing last [n] elements.
val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<Char>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list

/**
 * Returns a list containing last elements satisfying the given [predicate].
 */
public inline fun <T> takeLastWhile(predicate: (T) -> Boolean): List<T> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return drop(index + 1)
    return toList()}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 */
public inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return drop(index + 1)
    return toList()}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 */
public inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return drop(index + 1)
    return toList()}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 */
public inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return drop(index + 1)
    return toList()}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 */
public inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return drop(index + 1)
    return toList()}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 */
public inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return drop(index + 1)
    return toList()}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 */
public inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return drop(index + 1)
    return toList()}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 */
public inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return drop(index + 1)
    return toList()}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public inline fun Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {
    val list = ArrayList<T>()
    for (item in this)
        if (!predicate(item))
            break
    return list}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public inline fun ByteArray.takeWhile(predicate: (Byte) -> Boolean): List<Byte> {
    val list = ArrayList<Byte>()
    for (item in this)
        if (!predicate(item))
            break
    return list}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {
    val list = ArrayList<Short>()
    for (item in this)
        if (!predicate(item))
            break
    return list}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {
    val list = ArrayList<Int>()
    for (item in this)
        if (!predicate(item))
            break
    return list}
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```kotlin
val list = toMutableList()
list.reverse()
return list
}

/**
 * Returns a list with elements in reversed order.
 */
public fun <T> Array<out T>.reversed(): List<T> {
    if (isEmpty()) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public fun <T> @sample samples.Collections.Collections.Transformations.takeWhile(predicate: (T) -> Boolean): List<T> {
    val list = ArrayList<T>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
public fun CharArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
    return
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public fun DoubleArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
    return
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public fun FloatArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
    return
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public fun IntArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
    return
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public fun LongArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
    return
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public fun ShortArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
    return
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
public fun ByteArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
    return
}
```

*Return a list with elements in reversed order.*

*Return a list containing first elements satisfying the given [predicate].*

*Return a list with elements in reversed order.*
in reversed order.

```kotlin
in reversed order.

```
to their natural sort order. The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

```java
public fun ByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun CharArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun DoubleArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun FloatArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun IntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun LongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun ShortArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun ByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}
```
elements preserve their order relative to each other after sorting.

```kotlin
public fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {
    if (isEmpty()) return this
    return this.copyOf().apply { sortWith(reverseOrder()) } as Array<T> * Returns an array with all elements of this array sorted descending according to their natural sort order.
}

public fun ByteArray.sortedArrayDescending(): ByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } as ByteArray * Returns an array with all elements of this array sorted according to their natural sort order.
}

public fun ShortArray.sortedArrayDescending(): ShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } as ShortArray * Returns an array with all elements of this array sorted according to their natural sort order.
}

public fun IntArray.sortedArrayDescending(): IntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } as IntArray * Returns an array with all elements of this array sorted according to their natural sort order.
}

public fun LongArray.sortedArrayDescending(): LongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } as LongArray * Returns an array with all elements of this array sorted according to their natural sort order.
}

public fun FloatArray.sortedArrayDescending(): FloatArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } as FloatArray * Returns an array with all elements of this array sorted according to their natural sort order.
}

public fun DoubleArray.sortedArrayDescending(): DoubleArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } as DoubleArray * Returns an array with all elements of this array sorted according to their natural sort order.
}

public fun BooleanArray.sortedArrayDescending(): BooleanArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() } as BooleanArray * Returns an array with all elements of this array sorted according to their natural sort order.
}

public fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {
    if (isEmpty()) return this
    return this.copyOf().apply { sortWith(comparator) } as Array<out T> * Returns an array with all elements sorted according to the specified comparator. The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
}

public inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareBy(selector)) as List<T> * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
}

public inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {
    return sortedWith(compareBy(selector)) as List<Byte> * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
}

public inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {
    return sortedWith(compareBy(selector)) as List<Short> * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
}

public inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {
    return sortedWith(compareBy(selector)) as List<Int> * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
}

public inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {
    return sortedWith(compareBy(selector)) as List<Long> * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
}

public inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {
    return sortedWith(compareBy(selector)) as List<Float> * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
}

public inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {
    return sortedWith(compareBy(selector)) as List<Double> * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
}

public inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {
    return sortedWith(compareBy(selector)) as List<Boolean> * Returns a list of all elements sorted according to natural sort order.
```
elements preserve their order relative to each other after sorting.

```kotlin
public fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {
    return sortedArrayWith(comparator).asList()
}

/**
 * Returns a list of all elements sorted according to the specified
 * comparator.
 */
public fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified
 * comparator.
 */
public fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified
 * comparator.
 */
public fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified
 * comparator.
 */
public fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified
 * comparator.
 */
public fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list that wraps the original array.
 */
public expect fun <T> Array<out T>.asList(): List<T>

/**
 * Returns a list that wraps the original array.
 */
public expect fun ByteArray.asList(): List<Byte>

/**
 * Returns a list that wraps the original array.
 */
public expect fun ShortArray.asList(): List<Short>

/**
 * Returns a list that wraps the original array.
 */
public expect fun IntArray.asList(): List<Int>

/**
 * Returns a list that wraps the original array.
 */
public expect fun LongArray.asList(): List<Long>

/**
 * Returns a list that wraps the original array.
 */
public expect fun CharArray.asList(): List<Char>
```

This document contains code snippets related to sorting and manipulation of arrays in a programming context.
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. * `@SinceKotlin("1.1")` * Returns `true` if the two specified arrays are *structurally* equal to one another.* `@SinceKotlin("1.1")` * The elements are compared for equality with the

```kotlin
public expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,* `@SinceKotlin("1.1")` * The elements are compared for equality with the

```kotlin
public expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,* `@SinceKotlin("1.1")` * The elements are compared for equality with the

```kotlin
public expect infix fun IntArray.contentEquals(other: IntArray): Boolean

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,* `@SinceKotlin("1.1")` * The elements are compared for equality with the

```kotlin
public expect infix fun LongArray.contentEquals(other: LongArray): Boolean

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,* `@SinceKotlin("1.1")` * The elements are compared for equality with the

```kotlin
public expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another,* `@SinceKotlin("1.1")` * The elements are compared for equality with the

```kotlin
public expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean

/**
 * Returns a hash code based on the contents of this array as if it is 
 * `@SinceKotlin("1.1")` * `Array<out T>.contentHashCode(): Int

public expect fun ByteArray.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is 
 * `@SinceKotlin("1.1")` * `Array<out T>.contentHashCode(): Int

public expect fun ShortArray.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is 
 * `@SinceKotlin("1.1")` * `Array<out T>.contentHashCode(): Int

public expect fun IntArray.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is 
 * `@SinceKotlin("1.1")` * `Array<out T>.contentHashCode(): Int

public expect fun LongArray.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is 
 * `@SinceKotlin("1.1")` * `Array<out T>.contentHashCode(): Int

public expect fun FloatArray.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is 
 * `@SinceKotlin("1.1")` * `Array<out T>.contentHashCode(): Int

public expect fun DoubleArray.contentHashCode(): Int

/**
 * Returns a hash code based on the contents of this array as if it is 
 * `@SinceKotlin("1.1")` * `Array<out T>.contentHashCode(): Int

public expect fun CharArray.contentHashCode(): Int

/**
 * Returns a string representation of the contents of the specified array as if it is 
 * `@sample samples.collections.Arrays.ContentOperations.contentToString

public expect fun <T> Array<out T>.contentToString(): String
```
samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.1")
public expect fun ByteArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.1")
public expect fun ShortArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.1")
public expect fun IntArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.1")
public expect fun LongArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.1")
public expect fun FloatArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.1")
public expect fun DoubleArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.1")
public expect fun BooleanArray.contentToString(): String

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 * 
 * @sample samples.collections.Arrays.ContentOperations.contentToString
 */
@SinceKotlin("1.1")
public expect fun CharArray.contentToString(): String

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset].
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset].
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when \`startIndex > endIndex\`.
 * 
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
public expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>
0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n* when that index is out of the [destination] array indices range.\n* @return the [destination] array.

*/
@SinceKotlin("1.3")
public expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n* @param destination the array to copy to,\n* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n* when that index is out of the [destination] array indices range.\n* @return the [destination] array.
*/
@SinceKotlin("1.3")
public expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):

/**
 * Returns new array which is a copy of the original array.\n* @sample samples.collections.Arrays.CopyOfOperations.copyOf\n*/
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect fun <T> Array<T>.copyOf():

/**
 * Returns new array which is a copy of the original array.\n* @sample samples.collections.Arrays.CopyOfOperations.copyOf\n*/
public expect fun ByteArray.copyOf():

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n*/
public expect fun ShortArray.copyOf():

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n*/
public expect fun IntArray.copyOf():

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n*/
public expect fun LongArray.copyOf():

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n*/
public expect fun FloatArray.copyOf():

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n*/
public expect fun DoubleArray.copyOf():

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n*/
public expect fun BooleanArray.copyOf():

/**
 * Returns new array which is a copy of the original array.\n* @sample samples.collections.Arrays.CopyOfOperations.copyOf\n*/
public expect fun ByteArray.copyOf(newSize: Int):

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].\n* The copy is either truncated or padded at the end with zero values if necessary.\n* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n*/
public expect fun BooleanArray.copyOf(newSize: Int):

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].\n* The copy is either truncated or padded at the end with zero values.\n* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n*/
public expect fun CharArray.copyOf(newSize: Int):

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].\n* The copy is either truncated or padded at the end with zero values.
if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].

- If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values if necessary.
the end of the range (exclusive), must be in `fromIndex..array.size`

/*public expect fun
IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive), must be in `fromIndex..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
public expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive), must be in `fromIndex..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
public expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), must be in `fromIndex..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
public expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), must be in `fromIndex..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
public expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), must be in `fromIndex..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
public expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), must be in `fromIndex..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
public expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), must be in `fromIndex..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
public expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), must be in `fromIndex..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
public expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit

*/
its subrange with the specified [element] value. 

* @param fromIndex the start of the range (inclusive), 0 by default. 

* @param toIndex the end of the range (exclusive), size of this array by default. 

* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array. 

* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]. 

* @SinceKotlin("1.3")

public expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit

@SinceKotlin("1.3")
public expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit

@SinceKotlin("1.3")
public expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit

@SinceKotlin("1.3")
public expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit

@SinceKotlin("1.3")
public expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit

@SinceKotlin("1.3")
public expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit

@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun ByteArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun ShortArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun IntArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun LongArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun FloatArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun DoubleArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun BooleanArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun CharArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun ByteArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun ShortArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun IntArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun LongArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun FloatArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun DoubleArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun BooleanArray.isEmpty(): Boolean {
    return size == 0
}

@kotlin.internal.InlineOnly
public inline fun CharArray.isEmpty(): Boolean {
    return size == 0
}
empty.

/*
 * @kotlin.internal.InlineOnly
 * @kotlin.inline
 * Returns true if the array is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.isNotEmpty(): Boolean {
    return !isEmpty()
}

/**
 * Returns true if the array is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.isNotEmpty(): Boolean {
    return !isEmpty()
}

/**
 * Returns true if the array is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.isNotEmpty(): Boolean {
    return !isEmpty()
}

/**
 * Returns true if the array is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.isNotEmpty(): Boolean {
    return !isEmpty()
}

/**
 * Returns the last valid index for the array.
 */
@ Suppress("NO_ACTUAL_FOR_EXPECT")
public expect operator fun <T> Array<T>.plus(element: T): Array<T>

/**
 * Returns an array containing all elements of the original array and then the given `element`.
 */
public expect operator fun ByteArray.plus(element: Byte): ByteArray

/**
 * Returns an array containing all elements of the original array and then all elements of the 
 * given `elements` collection.
 */
public expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>

/**
 * Returns an array containing all elements of the original array and then all elements of the 
 * given `elements` collection.
 */
public expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray

/**
 * Returns an array containing all elements of the original array and then all elements of the 
 * given `elements` collection.
 */
public expect operator fun IntArray.plus(elements: Collection<Int>): IntArray

/**
 * Returns an array containing all elements of the original array and then all elements of the 
 * given `elements` collection.
 */
public expect operator fun LongArray.plus(elements: Collection<Long>): LongArray

/**
 * Returns an array containing all elements of the original array and then all elements of the 
 * given `elements` collection.
 */
public expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray

/**
 * Returns an array containing all elements of the original array and then all elements of the 
 * given `elements` collection.
 */
public expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray

/**
 * Returns an array containing all elements of the original array and then all elements of the 
 * given `elements` collection.
 */
public expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray

/**
 * Returns an array containing all elements of the original array and then all elements of the 
 * given `elements` collection.
 */
public expect operator fun CharArray.plus(elements: Collection<Char>): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the 
 * given `elements` collection.
 */
public expect operator fun Collection.outer<T>.plus(out T): Array<T>

/**
 * Returns a new array containing all elements of the original array.
 */
public val <T> Array<T>.lastIndex: Int
    get() = size - 1

/**
 * Returns a new array containing all elements of the original array.
 */
public val ByteArray.lastIndex: Int
    get() = size - 1

/**
 * Returns a new array containing all elements of the original array.
 */
public val ShortArray.lastIndex: Int
    get() = size - 1

/**
 * Returns a new array containing all elements of the original array.
 */
public val IntArray.lastIndex: Int
    get() = size - 1

/**
 * Returns a new array containing all elements of the original array.
 */
public val LongArray.lastIndex: Int
    get() = size - 1

/**
 * Returns a new array containing all elements of the original array.
 */
public val FloatArray.lastIndex: Int
    get() = size - 1

/**
 * Returns a new array containing all elements of the original array.
 */
public val DoubleArray.lastIndex: Int
    get() = size - 1

/**
 * Returns a new array containing all elements of the original array.
 */
public val BooleanArray.lastIndex: Int
    get() = size - 1

/**
 * Returns a new array containing all elements of the original array.
 */
public val CharArray.lastIndex: Int
    get() = size - 1
fun CharArray.plus(elements: Collection<Char>): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun <T> Array<T>.plus(elements: Array<T>): Array<T>

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun ByteArray.plus(elements: ByteArray): ByteArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun ShortArray.plus(elements: ShortArray): ShortArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun IntArray.plus(elements: IntArray): IntArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun LongArray.plus(elements: LongArray): LongArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun CharArray.plus(elements: CharArray): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect fun <T> Array<T>.plusElement(element: T): Array<T>

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun IntArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun LongArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun ByteArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun ShortArray.sort(): Unit

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun DoubleArray.sort(): Unit

/**
 * Returns an array of Boolean containing all of the elements of this generic array.
 */
public fun Array<out Boolean>.toBooleanArray(): BooleanArray {
    return BooleanArray(size) { index -> this[index] }
}

/**
 * Returns an array of Byte containing all of the elements of this generic array.
 */
public fun Array<out Byte>.toByteArray(): ByteArray {
    return ByteArray(size) { index -> this[index] }
}

/**
 * Returns an array of Char containing all of the elements of this generic array.
 */
public fun Array<out Char>.toCharArray(): CharArray {
    return CharArray(size) { index -> this[index] }
}

/**
 * Returns an array of Double containing all of the elements of this generic array.
 */
public fun Array<out Double>.toDoubleArray(): DoubleArray {
    return DoubleArray(size) { index -> this[index] }
}

/**
 * Returns an array of Float containing all of the elements of this generic array.
 */
public fun Array<out Float>.toFloatArray(): FloatArray {
    return FloatArray(size) { index -> this[index] }
}

/**
 * Returns an array of Int containing all of the elements of this generic array.
 */
public fun Array<out Int>.toIntArray(): IntArray {
    return IntArray(size) { index -> this[index] }
}
the elements of this generic array.

/*public fun Array<out Long>.toLongArray(): LongArray { return
LongArray(size) { index -> this[index] } // */

/* Returns an array of Short containing all of the elements of this
generic array.

/*public fun Array<out Short>.toShortArray(): ShortArray { return
ShortArray(size) { index -> this[index] } // */

/*public expect fun ByteArray.toTypedArray(): Array<Byte>*/

/* Returns a *typed* object array containing all of the elements of this
primitive array.

/*public expect fun IntArray.toTypedArray(): Array<Int>*/

/* Returns a *typed* object array containing all of the elements of this
primitive array.

/*public expect fun FloatArray.toTypedArray(): Array<Float>*/

/* Returns a *typed* object array containing all of the elements of this
primitive array.

/*public expect fun BooleanArray.toTypedArray(): Array<Boolean>*/

/*public expect fun CharArray.toTypedArray(): Array<Char>*/

/* Returns a *typed* object array containing all of the elements of this
primitive array.

/*public expect fun */

samples.collections.Arrays.Transformations.associateArrayOfPrimitives
*/

Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> { return
associateTo(LinkedHashMap<K, V>(capacity), transform)
}

ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> { return
associateTo(LinkedHashMap<K, V>(capacity), transform)
}

ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> { return
associateTo(LinkedHashMap<K, V>(capacity), transform)
}

IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> { return
associateTo(LinkedHashMap<K, V>(capacity), transform)
}

LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> { return
associateTo(LinkedHashMap<K, V>(capacity), transform)
}
samples.collections.Arrays.Transformations.associateArrayOfPrimitives

FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> { 
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity), transform)
} 

DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> { 
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity), transform)
} 

IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> { 
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity), transform)
}
mapCapacity(size).coerceAtLeast(16)) return associateByTo(LinkedHashMap<K, Int>(capacity),
    keySelector) * Returns a [Map] containing the elements from the given array indexed by the key
    * returned from [keySelector] function applied to each element. * * * * The returned map preserves the entry iteration
    order of the original array. * * * * @sample
}

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy
*/public inline fun <K>
LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {
    val capacity = mapCapacity(size).coerceAtLeast(16)) return associateByTo(LinkedHashMap<K, Long>(capacity),
    keySelector) * Returns a [Map] containing the elements from the given array indexed by the key
    * returned from [keySelector] function applied to each element. * * * * If any two elements would have the same key
    returned by [keySelector] the last one gets added to the map. * * * * The returned map preserves the entry iteration
    order of the original array. * * * * @sample
}

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy
*/public inline fun <K>
FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {
    val capacity = mapCapacity(size).coerceAtLeast(16)) return associateByTo(LinkedHashMap<K, Float>(capacity),
    keySelector) * Returns a [Map] containing the elements from the given array indexed by the key
    * returned from [keySelector] function applied to each element. * * * * If any two elements would have the same key
    returned by [keySelector] the last one gets added to the map. * * * * The returned map preserves the entry iteration
    order of the original array. * * * * @sample
}

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy
*/public inline fun <K>
DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {
    val capacity = mapCapacity(size).coerceAtLeast(16)) return associateByTo(LinkedHashMap<K, Double>(capacity),
    keySelector) * Returns a [Map] containing the elements from the given array indexed by the key
    * returned from [keySelector] function applied to each element. * * * * If any two elements would have the same key
    returned by [keySelector] the last one gets added to the map. * * * * The returned map preserves the entry iteration
    order of the original array. * * * * @sample
}

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy
*/public inline fun <K>
BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {
    val capacity = mapCapacity(size).coerceAtLeast(16)) return associateByTo(LinkedHashMap<K, Boolean>(capacity),
    keySelector) * Returns a [Map] containing the elements from the given array indexed by the key
    * returned from [keySelector] function applied to each element. * * * * If any two elements would have the same key
    returned by [keySelector] the last one gets added to the map. * * * * The returned map preserves the entry iteration
    order of the original array. * * * * @sample
}

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy
*/public inline fun <K>
CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {
    val capacity = mapCapacity(size).coerceAtLeast(16)) return associateByTo(LinkedHashMap<K, Char>(capacity),
    keySelector) * Returns a [Map] containing the elements from the given array indexed by the key
    * returned from [keySelector] function applied to each element. * * * * If any two elements would have the same key
    returned by [keySelector] the last one gets added to the map. * * * * The returned map preserves the entry iteration
    order of the original array. * * * * @sample
}

samplescollections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
*/public inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)) return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform) * Returns a [Map] containing the values provided by [valueTransform] and indexed by
    [keySelector] functions applied to elements of the given array. * * * * If any two elements would have the same key
    returned by [keySelector] the last one gets added to the map. * * * * The returned map preserves the entry iteration
    order of the original array. * * * * @sample
}

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
*/public inline fun
fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 */
public inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform

/


/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array
 * and value is the element itself.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
 */
public inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
same key returned by [keySelector] the last one gets added to the map.

```kotlin
inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, any where key is provided by the [keySelector] function and any value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, any where key is provided by the [keySelector] function and any value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, any where key is provided by the [keySelector] function and any value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
 */
public inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, any provided by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}
```

---

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returns the [destination] mutable map with key-value pairs\n provided by [transform] function applied to each element of the given array.\n If any of two pairs would have the same key the last one gets added to the map.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */
    for (element in this) {
        destination += transform(element)\n    }
    return destination\n}

/**
 * Populates and returns the [destination] mutable map with key-value pairs\n provided by\n [transform] function applied to each element of the given array.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */
public inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)\n    }
    return destination\n}

/**
 * Populates and returns the [destination] mutable map with key-value pairs\n provided by [transform] function applied to each element of the given array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */
public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)\n    }
    return destination\n}

/**
 * Populates and returns the [destination] mutable map with key-value pairs\n provided by [transform] function applied to each element of the given array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */
public inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)\n    }
    return destination\n}

/**
 * Populates and returns the [destination] mutable map with key-value pairs\n provided by [transform] function applied to each element of the given array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */
public inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)\n    }
    return destination\n}

/**
 * Appends all elements to the given [destination] collection.\n */
public fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)\n    }
    return destination\n}

/**
 * Appends all elements to the given [destination] collection.\n */
public fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)\n    }
    return destination\n}

/**
 * Appends all elements to the given [destination] collection.\n */
public fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)\n    }
    return destination\n}

/**
 * Appends all elements to the given [destination] collection.\n */
public fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)\n    }
    return destination\n}

/**
 * Appends all elements to the given [destination] collection.\n */
public fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)\n    }
    return destination\n}

/**
 * Appends all elements to the given [destination] collection.\n */
public fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)\n    }
    return destination\n}

/**
 * Appends all elements to the given [destination] collection.\n */
public fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)\n    }
    return destination\n}

/**
 * Appends all elements to the given [destination] collection.\n */
public fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)\n    }
    return
destination
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun <T> Array<out T>.toHashSet():
    HashSet<T> {
        return toCollection(HashSet<T>(mapCapacity(size)))
    }

/**
 * Returns a [HashSet] of all elements.
 */
public fun IntArray.toHashSet():
    HashSet<Int> {
        return toCollection(HashSet<Int>(mapCapacity(size)))
    }

/**
 * Returns a [HashSet] of all elements.
 */
public fun LongArray.toHashSet():
    HashSet<Long> {
        return toCollection(HashSet<Long>(mapCapacity(size)))
    }

/**
 * Returns a [HashSet] of all elements.
 */
public fun FloatArray.toHashSet():
    HashSet<Float> {
        return toCollection(HashSet<Float>(mapCapacity(size)))
    }

/**
 * Returns a [HashSet] of all elements.
 */
public fun DoubleArray.toHashSet():
    HashSet<Double> {
        return toCollection(HashSet<Double>(mapCapacity(size)))
    }

/**
 * Returns a [HashSet] of all elements.
 */
public fun BooleanArray.toHashSet():
    HashSet<Boolean> {
        return toCollection(HashSet<Boolean>(mapCapacity(size)))
    }

/**
 * Returns a [HashSet] of all elements.
 */
public fun CharArray.toHashSet():
    HashSet<Char> {
        return toCollection(HashSet<Char>(mapCapacity(size)))
    }

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun <T> Array<out T>.toMutableList():
    MutableList<T> {
        return ArrayList(this.asCollection())
    }

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ByteArray.toMutableList():
    MutableList<Byte> {
        val list = ArrayList<Byte>(size)
        for (item in this)
            list.add(item)
        return list
    }

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ShortArray.toMutableList():
    MutableList<Short> {
        val list = ArrayList<Short>(size)
        for (item in this)
            list.add(item)
        return list
    }

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun IntArray.toMutableList():
    MutableList<Int> {
        val list = ArrayList<Int>(size)
        for (item in this)
            list.add(item)
        return list
    }

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun LongArray.toMutableList():
    MutableList<Long> {
        val list = ArrayList<Long>(size)
        for (item in this)
            list.add(item)
        return list
    }

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun FloatArray.toMutableList():
    MutableList<Float> {
        val list = ArrayList<Float>(size)
        for (item in this)
            list.add(item)
        return list
    }

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun DoubleArray.toMutableList():
    MutableList<Double> {
        val list = ArrayList<Double>(size)
        for (item in this)
            list.add(item)
        return list
    }

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun BooleanArray.toMutableList():
    MutableList<Boolean> {
        val list = ArrayList<Boolean>(size)
        for (item in this)
            list.add(item)
        return list
    }

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun CharArray.toMutableList():
    MutableList<Char> {
        val list = ArrayList<Char>(size)
        for (item in this)
            list.add(item)
        return list
    }

/**
 * Returns a [List] containing all elements.
 */
public fun <T> Array<out T>.toList():
    List<T> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun ByteArray.toList():
    List<Byte> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun ShortArray.toList():
    List<Short> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun IntArray.toList():
    List<Int> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun LongArray.toList():
    List<Long> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun FloatArray.toList():
    List<Float> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun DoubleArray.toList():
    List<Double> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun BooleanArray.toList():
    List<Boolean> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun CharArray.toList():
    List<Char> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun ShortArray.toList():
    List<Short> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun IntArray.toList():
    List<Int> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun LongArray.toList():
    List<Long> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun FloatArray.toList():
    List<Float> {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(this[0])
            else -> this.toMutableList()
        }
    }

/**
 * Returns a [List] containing all elements.
 */
public fun DoubleArray.toList():
    List<Double> {
        return when (size) {
            0 -> emptyList()
this) list.add(item) return list

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun BooleanArray.toMutableList(): MutableList<Boolean>
{
    val list = ArrayList<Boolean>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun CharArray.toMutableList(): MutableList<Char>
{
    val list = ArrayList<Char>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [Set] of all elements.
 */
public fun <T> Array<out T>.toSet(): Set<T>
{
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
            toCollection(LinkedHashSet<T>(mapCapacity(size)))[0]
    }
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <T, R> Array<out T>.flatMap(transform: (T) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <R> ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <R> LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <R> BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <R> CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <R> ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun <R> LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R>
{
    return flatMapTo(ArrayList<R>(), transform)
}
(Long) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> { return flatMapTo(ArrayList<R>(), transform) } Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
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entry iteration order of the keys produced from the original array.

```kotlin
CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)  
}  

ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}
```

The returned map preserves the entry iteration order of the keys produced from the original array.

```kotlin
ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}
```

The returned map preserves the entry iteration order of the keys produced from the original array.

```kotlin
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}
```

The returned map preserves the entry iteration order of the keys produced from the original array.

```kotlin
ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}
```

The returned map preserves the entry iteration order of the keys produced from the original array.

```kotlin
ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}
```

The returned map preserves the entry iteration order of the keys produced from the original array.

```kotlin
ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}  

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>>  
{  
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)  
}
```

The returned map preserves the entry iteration order of the keys produced from the original array.
produced from the original array.

@sample
samples.collections.Collections.Transformations.groupByKeysAndValues*/

public inline fun <K, V> DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform) /* Groups values returned by the [valueTransform] function applied to each element of the original array * by the key returned by the given [keySelector] function applied to the element * and returns a map where each group key is associated with a list of corresponding values. */

@sample
samples.collections.Collections.Transformations.groupByKeysAndValues*/

public inline fun <K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform) /* Groups values returned by the [valueTransform] function applied to each element of the original array * by the key returned by the given [keySelector] function applied to the element * and returns a map where each group key is associated with a list of corresponding values. */

@sample
samples.collections.Collections.Transformations.groupByKeysAndValues*/

public inline fun <K, V> CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform) /* Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements. */

@sample
samples.collections.Collections.Transformations.groupByKeysAndValues*/

public inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<T>() }
        list.add(element)
    }
    return destination
}

@sample
samples.collections.Collections.Transformations.groupByKeysAndValues*/

public inline fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Byte>() }
        list.add(element)
    }
    return destination
}

@sample
samples.collections.Collections.Transformations.groupByKeysAndValues*/

public inline fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Short>() }
        list.add(element)
    }
    return destination
}

@sample
samples.collections.Collections.Transformations.groupByKeysAndValues*/

public inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Int>() }
        list.add(element)
    }
    return destination
}

@sample
samples.collections.Collections.Transformations.groupByKeysAndValues*/

public inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Long>() }
        list.add(element)
    }
    return destination
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

@sample samples.collections.Collections.Transformations.groupBy

/*public inline fun <K, M : MutableMap<in K, MutableList<T>>> T[].groupByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<T>() }
        list.add(element)
    }
    return destination
}*/

public inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Float>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * 
 * @return The [destination] map.
 * 
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Double>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * 
 * @return The [destination] map.
 * 
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Boolean>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * 
 * @return The [destination] map.
 * 
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Char>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function and puts to the [destination] map each group key associated with a list of corresponding values.
 * 
 * @return The [destination] map.
 * 
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.
 * 
 * @return The [destination] map.
 * 
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.
 * 
 * @return The [destination] map.
 * 
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

Array<out T>.groupingBy(crossinline keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

Array<out T>.groupingByEachCount(*n @SinceKotlin("1.1.1")) {n * @sample

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samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {  
    return mapTo(ArrayList<R>(size), transform)\n} \n
/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T> ShortArray.mapIndexed(transform: (Int, T) -> R): List<R> {  
    return mapIndexedTo(ArrayList<R>(size), transform)\n} \n
/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T> ByteArray.mapIndexed(transform: (Int, Byte) -> R): List<R> {  
    return mapIndexedTo(ArrayList<R>(size), transform)\n} \n
/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T> CharArray.mapIndexed(transform: (Char, T) -> R): List<R> {  
    return mapIndexedTo(ArrayList<R>(size), transform)\n} \n
/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T>IntArray.mapIndexed(transform: (Int, Int) -> R): List<R> {  
    return mapIndexedTo(ArrayList<R>(size), transform)\n} \n
/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T> LongArray.mapIndexed(transform: (Long, T) -> R): List<R> {  
    return mapIndexedTo(ArrayList<R>(size), transform)\n} \n
/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T> DoubleArray.mapIndexed(transform: (Double, T) -> R): List<R> {  
    return mapIndexedTo(ArrayList<R>(size), transform)\n} \n
/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T> BooleanArray.mapIndexed(transform: (Boolean, T) -> R): List<R> {  
    return mapIndexedTo(ArrayList<R>(size), transform)\n} \n
/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T> CharArray.mapIndexed(transform: (Char, T) -> R): List<R> {  
    return mapIndexedTo(ArrayList<R>(size), transform)\n} \n
/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T> ShortArray.mapIndexed(transform: (Int, Short, T) -> R): List<R> {  
    return mapIndexedTo(ArrayList<R>(size), transform)\n}
[transform] function that takes the index of an element and the element itself in
* and returns the result of the transform applied to the element.

public inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element and its index in the original array.
 * @param [transform] function that takes the index of an element and the element itself in
 * and returns the result of the transform applied to the element.
 */
public inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element and its index in the original array.
 * @param [transform] function that takes the index of an element and the element itself in
 * and returns the result of the transform applied to the element.
 */
public inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element and its index in the original array.
 * @param [transform] function that takes the index of an element and the element itself in
 * and returns the result of the transform applied to the element.
 */
public inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing only the non-null results of applying the given [transform] function
 * to each element and the element itself in the original array.
 * @param [transform] function that takes the index of an element and the element itself in
 * and returns the result of the transform applied to the element.
 */
public inline fun <T, R : Any> Array<out T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the non-null results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {
    forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
function to each element of the original array\n * and appends the results to the given \[destination]\n */
public inline fun <R, C : MutableCollection\<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n for (item in this)\n   destination.add(transform(item))\n return destination\n}

/**
 * Applies the given \[transform\] function to each element of the original array\n * and appends the results to the given \[destination]\n */
public inline fun <R, C : MutableCollection\<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C {\n for (item in this)\n   destination.add(transform(item))\n return destination\n}

/**
 * Applies the given \[transform\] function to each element of the original array\n * and appends the results to the given \[destination]\n */
public inline fun <R, C : MutableCollection\<in R>> CharArray.mapTo(destination: C, transform: (Char) -> R): C {
  for (item in this)
    destination.add(transform(item))
  return destination
}

/**
 * Returns a lazy \[Iterable\] that wraps each element of the original array\n * into an \[IndexedValue\] containing the index of that element and the element itself.\n */
public fun <T> Array\<out T>.withIndex(): Iterable<IndexedValue<T>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy \[Iterable\] that wraps each element of the original array\n * into an \[IndexedValue\] containing the index of that element and the element itself.\n */
public fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy \[Iterable\] that wraps each element of the original array\n * into an \[IndexedValue\] containing the index of that element and the element itself.\n */
public fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy \[Iterable\] that wraps each element of the original array\n * into an \[IndexedValue\] containing the index of that element and the element itself.\n */
public fun IntArray.withIndex(): Iterable<IndexedValue<Int>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy \[Iterable\] that wraps each element of the original array\n * into an \[IndexedValue\] containing the index of that element and the element itself.\n */
public fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy \[Iterable\] that wraps each element of the original array\n * into an \[IndexedValue\] containing the index of that element and the element itself.\n */
public fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy \[Iterable\] that wraps each element of the original array\n * into an \[IndexedValue\] containing the index of that element and the element itself.\n */
public fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy \[Iterable\] that wraps each element of the original array\n * into an \[IndexedValue\] containing the index of that element and the element itself.\n */
public fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy \[Iterable\] that wraps each element of the original array\n * into an \[IndexedValue\] containing the index of that element and the element itself.\n */
public fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n */
public fun <T> Array\<out T>.distinct(): List<T> {
    return this.toMutableSet().toList()\n}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n */
public fun ByteArray.distinct(): List<Byte> {
    return this.toMutableSet().toList()\n}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n */
public fun ShortArray.distinct(): List<Short> {
    return this.toMutableSet().toList()\n}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n */
public fun IntArray.distinct(): List<Int> {
    return this.toMutableSet().toList()\n}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n */
public fun LongArray.distinct(): List<Long> {
    return this.toMutableSet().toList()\n}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n */
public fun FloatArray.distinct(): List<Float> {
    return this.toMutableSet().toList()\n}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n */
public fun DoubleArray.distinct(): List<Double> {
    return this.toMutableSet().toList()\n}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n */
public fun BooleanArray.distinct(): List<Boolean> {
    return this.toMutableSet().toList()\n}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n */
public fun CharArray.distinct(): List<Char> {
    return this.toMutableSet().toList()\n}
in the source array.

* @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public fun LongArray.distinct(): List<Long> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public fun FloatArray.distinct(): List<Float> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public fun DoubleArray.distinct(): List<Double> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public fun BooleanArray.distinct(): List<Boolean> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public fun CharArray.distinct(): List<Char> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given 
 * selector function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K): List<T> {
    val set = HashSet<K>()
    val list = ArrayList<T>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given 
 * selector function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {
    val set = HashSet<K>()
    val list = ArrayList<Byte>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given 
 * selector function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public inline fun <K> ShortArray.distinctBy(selector: (Short) -> K): List<Short> {
    val set = HashSet<K>()
    val list = ArrayList<Short>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given 
 * selector function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public inline fun <K> IntArray.distinctBy(selector: (Int) -> K): List<Int> {
    val set = HashSet<K>()
    val list = ArrayList<Int>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given 
 * selector function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public inline fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {
    val set = HashSet<K>()
    val list = ArrayList<Long>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given 
 * selector function.
 * The elements in the resulting list are in the same order as they were in the source array.
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

*/
public inline fun <K> FloatArray.distinctBy(selector: (Float) -> K): List<Float> {
    val set = HashSet<K>()
    val list =
ArrayList<Float>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }

    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they
 * were in the source array.
 */

public inline fun <K> DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {
    val set = HashSet<K>()
    val list = ArrayList<Double>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }

    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they
 * were in the source array.
 */

public inline fun <K> BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {
    val set = HashSet<K>()
    val list = ArrayList<Boolean>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }

    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they
 * were in the source array.
 */

public inline fun <K> CharArray.distinctBy(selector: (Char) -> K): List<Char> {
    val set = HashSet<K>()
    val list = ArrayList<Char>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }

    return list
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified
 * collection. The returned set preserves the element iteration order of the original array.
 */

public infix fun <T> Array<T>.intersect(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.retainAll(other)

    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified
 * collection. The returned set preserves the element iteration order of the original array.
 */

public infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.retainAll(other)

    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified
 * collection. The returned set preserves the element iteration order of the original array.
 */

public infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.retainAll(other)

    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified
 * collection. The returned set preserves the element iteration order of the original array.
 */

public infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {
    val set = this.toMutableSet()
    set.retainAll(other)

    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified
 * collection. The returned set preserves the element iteration order of the original array.
 */

public infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.retainAll(other)

    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified
 * collection. The returned set preserves the element iteration order of the original array.
 */

public infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.retainAll(other)

    return set
}

/**
 * Returns a set containing all elements that are contained by both this array and the specified
 * collection. The returned set preserves the element iteration order of the original array.
 */

public infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.retainAll(other)

    return set
}
elements that are contained by both this array and the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun BooleanArray.intersect(other: Iterable<Boolean>): Set<Boolean> \{ val set = this.toMutableSet() \text{ set retainAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by both this array and the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() \text{ set retainAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() \text{ set retainAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> \{ val set = this.toMutableSet() \text{ set retainAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> \{ val set = this.toMutableSet() \text{ set retainAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> \{ val set = this.toMutableSet() \text{ set retainAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short> \{ val set = this.toMutableSet() \text{ set retainAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() \text{ set removeAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> \{ val set = this.toMutableSet() \text{ set removeAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() \text{ set removeAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() \text{ set removeAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> \{ val set = this.toMutableSet() \text{ set removeAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> \{ val set = this.toMutableSet() \text{ set removeAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun IntArray.subtract(other: Iterable<Int>): Set<Int> \{ val set = this.toMutableSet() \text{ set removeAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].

\[
\text{public infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> \{ val set = this.toMutableSet() \text{ set removeAll(other) return set} \}\}
\]

Returns a set containing all elements that are contained by this array and not contained by the specified collection. The returned set preserves the element iteration order of the original array. To get a set containing all elements that are contained at least in one of these collections use \[\text{union}\].
Returns a mutable set containing all distinct elements from the given array. * `* ` * The returned set preserves the element iteration order of the original array. * `* ` * `* ` * Returns a mutable set containing all distinct elements from the given array. * `* ` * The returned set preserves the element iteration order of the original array. * `* ` * `* ` * Returns a mutable set containing all distinct elements from the given array. * `* ` * `* ` * Returns a mutable set containing all distinct elements from the given array. * `* ` * `* ` * Returns a mutable set containing all distinct elements from the given array. * `* ` * The returned set preserves the element iteration order of the original array. * `* ` * `* ` * Returns a mutable set containing all distinct elements from the given array. * `* ` * The returned set preserves the element iteration order of the original array. * `* ` * `* ` * Returns a mutable set containing all distinct elements from the given array.

```kotlin
谠val set = LinkedHashSet<Int>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Long>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Float>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Double>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Byte>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Short>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Char>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Boolean>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Long>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Int>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Byte>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
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```kotlin
谠val set = LinkedHashSet<Boolean>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
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```kotlin
谠val set = LinkedHashSet<Long>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
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```kotlin
谠val set = LinkedHashSet<Int>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Long>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Float>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Double>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Byte>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
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谠val set = LinkedHashSet<Short>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
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```kotlin
谠val set = LinkedHashSet<Long>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```

```kotlin
谠val set = LinkedHashSet<Int>(mapCapacity(size))谠for (item in this) set.add(item)谠return set
```
**Infix fun DoubleArray.union(other: Iterable<Double>): Set<Double>**

```kotlin
public infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}
```

**Description**

The `union` function takes an `Iterable<Double>` as an argument and returns a `Set<Double>` containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. This function is useful for combining two Double arrays into a single set while maintaining the order of elements.

**Example Usage**

```kotlin
val set1 = DoubleArray(1.0, 2.0, 3.0)
val set2 = DoubleArray(4.0, 5.0, 6.0)
val combinedSet = set1.union(set2)
```

This will produce a `Set<Double>` containing `1.0`, `2.0`, `3.0`, `4.0`, and `5.0` with the order preserved from `set1`.
samples.collections.Collections.Aggregates.any

public fun DoubleArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public fun BooleanArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public fun CharArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun IntArray.any(predicate: (Int) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun DoubleArray.any(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.count(): Int {
    return size
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun IntArray.count(predicate: (Int) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun LongArray.count(predicate: (Long) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun FloatArray.count(predicate: (Float) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun CharArray.count(predicate: (Char) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun IntArray.count(predicate: (Int) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun LongArray.count(predicate: (Long) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun FloatArray.count(predicate: (Float) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate] in this array.
 * 
 * @sample
 * samples.collections.Collections.Aggregates.any
 */
public inline fun CharArray.count(predicate: (Char) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
element with its index in the original array.

```kotlin
    * @param [operation] function that takes the index of an element,
    * starting with [initial] value and applying [operation] from left to right
    * to current accumulator value and each element.
    * @return
    * Accumulates value starting with [initial] value and applying [operation] from left to right
double
    * to current accumulator value and each element.
    */
    public inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {
        var accumulator = initial
        for (element in this) accumulator = operation(accumulator, element)
        return accumulator
    }

    /**
     * Accumulates value starting with [initial] value and applying [operation] from left to right
     * to current accumulator value and each element.
     */
    public inline fun <R> CharArray.count(predicate: (Char) -> Boolean): Int {
        var count = 0
        for (element in this) if (predicate(element)) ++count
        return count
    }
```

- `CharArray.count(predicate: (Char) -> Boolean): Int` - Returns the number of elements matching the given `predicate`. The function `fold` applies an operation to each element starting from an initial value. The `count` method simply applies a predicate and counts the number of elements that match. This is a fundamental operation in many programming languages, allowing for efficient processing of collections of data.
current accumulator value

and the element itself, and calculates the next accumulator value.

\public inline fun <T, R> Array<out T>.fold Indexed (initial: R, operation: (index: Int, acc: R, T) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @public inline fun <R> ByteArray.fold Indexed (initial: R, operation: (index: Int, acc: R, Byte) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @public inline fun <R> CharArray.fold Indexed (initial: R, operation: (index: Int, acc: R, Char) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @public inline fun <R> IntArray.fold Indexed (initial: R, operation: (index: Int, acc: R, Int) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @public inline fun <R> LongArray.fold Indexed (initial: R, operation: (index: Int, acc: R, Long) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @public inline fun <R> ShortArray.fold Indexed (initial: R, operation: (index: Int, acc: R, Short) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @public inline fun <R> BooleanArray.fold Indexed (initial: R, operation: (index: Int, acc: R, Boolean) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @public inline fun <R> DoubleArray.fold Indexed (initial: R, operation: (index: Int, acc: R, Double) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @public inline fun <R> FloatArray.fold Indexed (initial: R, operation: (index: Int, acc: R, Float) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @public inline fun <R> CharArray.fold Indexed (initial: R, operation: (index: Int, acc: R, Char) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element with its index in the original array.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @public inline fun <R> BooleanArray.fold Indexed (initial: R, operation: (index: Int, acc: R, Boolean) -> R): R

\{ \n var index = 0

var accumulator = initial

for (element in this) accumulator = operation(index++, accumulator, element)

return accumulator

\} return accumulator

\n
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 */
public fun ShortArray.max(): Short? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun ByteArray.max(): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun <T : Comparable<T>> Array<out T>.max(): T? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.1")
public fun Array<out Float>.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    if (max.isNaN()) return max
    for (i in 1..lastIndex) {
        val e = this[i]
        if (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.1")
public fun Array<out Double>.max(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    if (max.isNaN()) return max
    for (i in 1..lastIndex) {
        val e = this[i]
        if (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the desired action on the element.
 */
@public inline fun CharArray.forEachIndexed(action: (Int, Char) -> Unit): Unit {
    var index = 0
    for (element in this) action(index++, element)
}

/**
 * Performs the given [action] on each element.
 */
public inline fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {
    for (element in this)
        action(element)
}

/**
 * Performs the given [action] on each element.
 */
public inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element.
 */
public inline fun BooleanArray.forEachIndexed(action: (Int, Boolean) -> Unit): Unit {
    var index = 0
    for (element in this) action(index++, element)
}

/**
 * Performs the given [action] on each element.
 */
public inline fun IntArray.forEachIndexed(action: (Int, Int) -> Unit): Unit {
    var index = 0
    for (element in this) action(index++, element)
}

/**
 * Performs the given [action] on each element.
 */
public inline fun FloatArray.forEachIndexed(action: (Int, Float) -> Unit): Unit {
    var index = 0
    for (element in this) action(index++, element)
}

/**
 * Performs the given [action] on each element.
 */
public inline fun LongArray.forEachIndexed(action: (Int, Long) -> Unit): Unit {
    var index = 0
    for (element in this) action(index++, element)
}

/**
 * Performs the given [action] on each element.
 */
public inline fun ShortArray.forEachIndexed(action: (Int, Short) -> Unit): Unit {
    var index = 0
    for (element in this) action(index++, element)
}

*8

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for (i in 1..lastIndex) {\n    val e = this[i]
    if (max < e) max = e
\n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun IntArray.max(): Int? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //intrinsic fun FloatArray.max(): Float? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun DoubleArray.max(): Double? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun CharArray.max(): Char? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //intrinsic fun ByteArray.max(): Byte? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun ShortArray.max(): Short? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun IntArray.max(): Int? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //intrinsic fun LongArray.max(): Long? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun DoubleArray.max(): Double? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun CharArray.max(): Char? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //intrinsic fun ByteArray.max(): Byte? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun ShortArray.max(): Short? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun IntArray.max(): Int? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //intrinsic fun LongArray.max(): Long? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun DoubleArray.max(): Double? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun CharArray.max(): Char? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //intrinsic fun ByteArray.max(): Byte? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun ShortArray.max(): Short? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun IntArray.max(): Int? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //intrinsic fun LongArray.max(): Long? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun DoubleArray.max(): Double? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun CharArray.max(): Char? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //intrinsic fun ByteArray.max(): Byte? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun ShortArray.max(): Short? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //public fun IntArray.max(): Int? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.

* //intrinsic fun LongArray.max(): Long? {\n    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {\n        val e = this[i]
        if (max < e) max = e
    \n    return max\n} * Returns the largest element or `null` if there are no elements.
lastIndex = this.lastIndex
if (lastIndex == 0) return maxElem

val e = this[i]
val v = selector(e)

if (maxValue < v) {
    maxElem = e
    maxValue = v
}

return maxElem

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@sample samples.collections
Collections.Aggregates.maxBy

fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double? {
    if (isEmpty()) return null
    var maxElem = this[0]
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@sample samples.collections
BooleanArray.maxBy

fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@sample samples.collections
ShortArray.maxBy

fun <R : Comparable<R>> IntArray.maxBy(comparator: Comparator<Int>): Int? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@sample samples.collections
LongArray.maxBy

fun <R : Comparable<R>> FloatArray.maxBy(comparator: Comparator<Float>): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@sample samples.collections
DoubleArray.maxBy
if (comparator.compare(max, e) < 0) max = e

@SinceKotlin("1.1")
public fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {
    var max = this[0]
    for (i in 1..lastIndex) {
        if (comparator.compare(max, this[i]) < 0) max = this[i]
    }
    return max
}

@SinceKotlin("1.1")
public fun <T : Comparable<T>> Array<T>.minWith(comparator: Comparator<in T>): T? {
    var min = this[0]
    for (i in 1..lastIndex) {
        if (comparator.compare(min, this[i]) > 0) min = this[i]
    }
    return min
}
lastIndex = this.lastIndex
if (lastIndex == 0) return minElem
val min = selector(minElem)
for (i in 1..lastIndex) {
    val e = this[i]
    val v = selector(e)
    if (min > v) {
        min = e
        min = v
    }
}
return min

/**
 * Returns the first element yielding the smallest value
 * of the given function or 'null' if there are no elements.
 */
public fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (min > v) {
            min = e
            min = v
        }
    }
    return min
}
this[0] for (i in 1..lastIndex) {\n    val e = this[i] if (comparator.compare(min, e) > 0) min = e \n} return min

/*
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
 */
fun IntArray.minWith(comparator: Comparator<in Int>): Int? {
    if (isEmpty()) return null
    var min = this[0] for (i in 1..lastIndex) {\n        val e = this[i] if (comparator.compare(min, e) > 0) min = e \n    } return min
}

/*
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
 */
fun LongArray.minWith(comparator: Comparator<in Long>): Long? {
    if (isEmpty()) return null
    var min = this[0] for (i in 1..lastIndex) {\n        val e = this[i] if (comparator.compare(min, e) > 0) min = e \n    } return min
}

/*
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
 */
fun DoubleArray.minWith(comparator: Comparator<in Double>): Double? {
    if (isEmpty()) return null
    var min = this[0] for (i in 1..lastIndex) {\n        val e = this[i] if (comparator.compare(min, e) > 0) min = e \n    } return min
}

/*
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
fun <T> Array<out T>.none(): Boolean {
    return isEmpty()
}

/*
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
fun ByteArray.none(): Boolean {
    return isEmpty()
}

/*
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
fun ShortArray.none(): Boolean {
    return isEmpty()
}

/*
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
fun IntArray.none(): Boolean {
    return isEmpty()
}

/*
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
fun LongArray.none(): Boolean {
    return isEmpty()
}

/*
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
fun FloatArray.none(): Boolean {
    return isEmpty()
}

/*
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
fun DoubleArray.none(): Boolean {
    return isEmpty()
}

/*
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
fun BooleanArray.none(): Boolean {
    return isEmpty()
}

/*
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
fun CharArray.none(): Boolean {
    return isEmpty()
}
(Short) -> Boolean: Boolean { for (element in this) if (predicate(element)) return false
  return true
} \n\n* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate(*\n\n\npublic inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean { for (element in this) if (predicate(element)) return false
  return true
} \n\n* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate(*\n\n\npublic inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean { for (element in this) if (predicate(element)) return false
  return true
} \n\n* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate(*\n\n\npublic inline fun ByteArray none(predicate: (Byte) -> Boolean): Byte { for (index in 0..<this.size) if (predicate(this[index])) return false
  return this[0]
} \n\n* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate(*\n\n\npublic inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short { for (index in 0..<this.size) if (predicate(this[index])) return false
  return this[0]
} \n\n* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate(*\n\n\npublic inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int { for (index in 0..<this.size) if (predicate(this[index])) return false
  return this[0]
} \n\n* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate(*\n\n\npublic inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long { for (index in 0..<this.size) if (predicate(this[index])) return false
  return this[0]
} \n\n* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate(*\n\n\npublic inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float { for (index in 0..<this.size) if (predicate(this[index])) return false
  return this[0]
} \n\n* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate(*\n\n\npublic inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean { for (element in this) if (predicate(element)) return false
  return true
} \n\n* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate(*\n\n\npublic inline fun CharArray none(predicate: (Char) -> Boolean): Boolean { for (index in 0..<this.size) if (predicate(this[index])) return false
  return this[0]
} \n\n* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate(*)

public inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

public inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

public inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

public inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

public inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

public inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

```java
public inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
ByteArray.reduce(operation: (acc: Byte, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
BooleanArray.reduceIndexed(operation: (acc: Boolean, acc: Boolean) -> Boolean): Boolean {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
DoubleArray.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
ShortArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Boolean): Boolean {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from right to left to current accumulator value and each element.

```java
CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```
LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte
    if (isEmpty())
        return null
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short
    if (isEmpty())
        return null
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

TArray.reduceOrNull(operation: (acc: T, T) -> T): T
    if (isEmpty())
        return null
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
fun <S, T : S> Array<out T>.reduceOrNonNull(operation: (acc: S, T) -> S): S?
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

ByteArray.reduceOrNonNull(operation: (acc: Byte, Byte) -> Byte): Byte?
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.

ShortArray.reduceOrNonNull(operation: (acc: Short, Short) -> Short): Short?
    var accumulator = this[0] for (index in 1..lastIndex)
        return accumulator
    * Accumulates value starting with the first element and applying [operation] from left to right
    * to current accumulator value and each element with its index in the original array.
```kotlin
/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left to each element.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

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Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
fun BooleanArray.reduceRightIndexed(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
fun CharArray.reduceRightIndexed(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
fun DoubleArray.reduceRightIndexed(operation: (Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
fun FloatArray.reduceRightIndexed(operation: (Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
fun IntArray.reduceRightIndexed(operation: (Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
fun LongArray.reduceRightIndexed(operation: (Long, acc: Long) -> Long): Long {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
fun ShortArray.reduceRightIndexed(operation: (Short, acc: Short) -> Short): Short {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

function that takes the index of an element, the element itself\n* and current accumulator value, and calculates the
next accumulator value.\n* \n* * @sample samples.collections.Collections.Aggregates.reduceRightIndexed\n* \n* * @sample

ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.");\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n
    return accumulator\n}

ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.");\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n
    return accumulator\n}

IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.");\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n
    return accumulator\n}

LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.");\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n
    return accumulator\n}

FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.");\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n
    return accumulator\n}

DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.");\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n        return accumulator\n    }\n
    return accumulator\n}
samples.collections.Collections.Aggregates.reduceRight

public inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

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accumulator
} * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from
 * right to left to each element and current accumulator value. Returns null if the array is empty.
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 * @kotlin.internal.InlineOnly
 * public inline fun ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {
 *     if (isEmpty()) return listOf(initial)
 *     val result = ArrayList<R>(size + 1).apply { add(initial) }
 *     var accumulator = initial
 *     for (element in this) {
 *         accumulator = operation(accumulator, element)
 *         result.add(accumulator)
 *     }
 *     return result
 * }
```
each element and current accumulator value that starts with [initial] value.
* Note that `acc` value passed to [operation] function should not be mutated;
* otherwise it would affect the previous value in resulting list.
* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
* @sample samples.collections.Collections.Aggregates.scan

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
@public inline fun <R>
IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
@public inline fun <R>
LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
@public inline fun <R>
FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
@public inline fun <R>
DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
@public inline fun <R>
BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

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accumulator.value
* \n * \n * @sample samples.collections.Collections.Aggregates.scan

*\n*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\n\npublic inline fun <R>
CharArray.scan(initial: R, operation: (acc: Char, -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n        return result\n    }\n}\n\n\n*\n*\n*\nReturns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element, its index in the original array and current accumulator value that starts with [initial] value\n* \n* \n* Note that 'acc' value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.\n* \n* \n* @sample samples.collections.Collections.Aggregates.scan

*\n*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\n\npublic inline fun <T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n        return result\n    }\n}\n\n\n*\n*\n*\nReturns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element, its index in the original array and current accumulator value that starts with [initial] value\n* \n* \n* Note that 'acc' value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.\n* \n* \n* @sample samples.collections.Collections.Aggregates.scan

*\n*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\n\npublic inline fun <T, R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n        return result\n    }\n}\n\n\n*\n*\n*\nReturns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element, its index in the original array and current accumulator value that starts with [initial] value\n* \n* \n* Note that 'acc' value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.\n* \n* \n* @sample samples.collections.Collections.Aggregates.scan

*\n*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\n\npublic inline fun <T, R> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n        return result\n    }\n}\n\n\n*\n*\n*\nReturns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element, its index in the original array and current accumulator value that starts with [initial] value\n* \n* \n* Note that 'acc' value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.\n* \n* \n* @sample samples.collections.Collections.Aggregates.scan

*\n*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\n\npublic inline fun <R>
IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n        return result\n    }\n}\n\n\n*\n*\n*\nReturns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element, its index in the original array and current accumulator value that starts with [initial] value\n* \n* \n* Note that 'acc' value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.\n* \n* \n* @sample samples.collections.Collections.Aggregates.scan

*\n*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\n\npublic inline fun <R>
IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n        return result\n    }\n}\n\n\n*\n*\n*\nReturns a list containing successive accumulation values generated by applying [operation] from left to right\n* to each element, its index in the original array and current accumulator value that starts with [initial] value\n* \n* \n* Note that 'acc' value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.\n* \n* \n* @sample samples.collections.Collections.Aggregates.scan

*\n*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\n\npublic inline fun <R>
index of an element, current accumulator value * and the element itself, and calculates the next accumulator value. * @sample samples.collections.Collections.Aggregates.scan
 *\n *\n * LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n *\n * if (isEmpty()) return listOf(initial)\n *\n * result = ArrayList<R>(size + 1).apply { add(initial) }\n *\n * var accumulator = initial\n *\n * for (index in indices) {\n *\n * accumulator = operation(index, accumulator, this[index])\n *\n * result.add(accumulator)\n *\n * return result\n *\n *\n *\n *\n *\n * Returns a list containing successive accumulation values generated by applying
 *\n * operation from left to right to each element, its index in the original array and current accumulator value that
 *\n * starts with [initial] value.\n *\n * Note that ‘acc’ value passed to [operation] function should not be mutated;\n *\n * otherwise it would affect the previous value in resulting list.\n *\n * @param [operation] function that takes the
 *\n * index of an element, current accumulator value * and the element itself, and calculates the next accumulator value. * @sample samples.collections.Collections.Aggregates.scan
 *\n *\n * FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n *\n * if (isEmpty()) return listOf(initial)\n *\n * result = ArrayList<R>(size + 1).apply { add(initial) }\n *\n * var accumulator = initial\n *\n * for (index in indices) {\n *\n * accumulator = operation(index, accumulator, this[index])\n *\n * result.add(accumulator)\n *\n * return result\n *\n *\n *\n *\n *\n * Returns a list containing successive accumulation values generated by applying
 *\n * operation from left to right to each element, its index in the original array and current accumulator value that
 *\n * starts with [initial] value.\n *\n * Note that ‘acc’ value passed to [operation] function should not be mutated;\n *\n * otherwise it would affect the previous value in resulting list.\n *\n * @param [operation] function that takes the
 *\n * index of an element, current accumulator value * and the element itself, and calculates the next accumulator value. * @sample samples.collections.Collections.Aggregates.scan
 *\n *\n * DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n *\n * if (isEmpty()) return listOf(initial)\n *\n * result = ArrayList<R>(size + 1).apply { add(initial) }\n *\n * var accumulator = initial\n *\n * for (index in indices) {\n *\n * accumulator = operation(index, accumulator, this[index])\n *\n * result.add(accumulator)\n *\n * return result\n *\n *\n *\n *\n *\n * Returns a list containing successive accumulation values generated by applying
 *\n * operation from left to right to each element, its index in the original array and current accumulator value that
 *\n * starts with [initial] value.\n *\n * Note that ‘acc’ value passed to [operation] function should not be mutated;\n *\n * otherwise it would affect the previous value in resulting list.\n *\n * @param [operation] function that takes the
 *\n * index of an element, current accumulator value * and the element itself, and calculates the next accumulator value. * @sample samples.collections.Collections.Aggregates.scan
 *\n *\n * BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n *\n * if (isEmpty()) return listOf(initial)\n *\n * result = ArrayList<R>(size + 1).apply { add(initial) }\n *\n * var accumulator = initial\n *\n * for (index in indices) {\n *\n * accumulator = operation(index, accumulator, this[index])\n *\n * result.add(accumulator)\n *\n * return result\n *\n *\n *\n *\n *\n * Returns a list containing successive accumulation values generated by applying
 *\n * operation from left to right to each element, its index in the original array and current accumulator value that
 *\n * starts with [initial] value.\n *\n * Note that ‘acc’ value passed to [operation] function should not be mutated;\n *\n * otherwise it would affect the previous value in resulting list.\n *\n * @param [operation] function that takes the
 *\n * index of an element, current accumulator value * and the element itself, and calculates the next accumulator value. * @sample samples.collections.Collections.Aggregates.scan
 *\n *\n * CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n *\n * if (isEmpty()) return listOf(initial)\n *\n * result = ArrayList<R>(size + 1).apply { add(initial) }\n *\n * var accumulator = initial\n *\n * for (index in indices) {\n *\n * accumulator = operation(index, accumulator, this[index])\n *\n * result.add(accumulator)\n *\n * return result\n *\n *\n *\n *\n *\n * Returns a list containing successive accumulation values generated by applying
 *\n * operation from left to right to each element and current accumulator value that starts with the first element of
this array.
* @param value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
* function that takes current accumulator value and the element, and calculates the next accumulator value.
* @param samples.collections.Collections.Aggregates.scanReduce

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Array<out T>.scanReduce(operation: (acc: S, T) -> S): List<S> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<S>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun ByteArray.scanReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Byte>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun ShortArray.scanReduce(operation: (acc: Short, Short) -> Short): List<Short> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Short>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun IntArray.scanReduce(operation: (acc: Int, Int) -> Int): List<Int> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Int>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun LongArray.scanReduce(operation: (acc: Long, Long) -> Long): List<Long> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Long>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun FloatArray.scanReduce(operation: (acc: Float, Float) -> Float): List<Float> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Float>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```
result

* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this array.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @sample samples.collections.Collections.Aggregates.scanReduce

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun DoubleArray.scanReduce(operation: (acc: Double, Double) -> Double): List<Double> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Double>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun BooleanArray.scanReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Boolean>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun CharArray.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun <S, T : S> Array<out T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    if (isEmpty()) return emptyList()
    var accumulator: S = this[0]
    val result = ArrayList<S>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun ByteArray.scanReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Byte>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun <S, T : S> Array<out T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    if (isEmpty()) return emptyList()
    var accumulator: S = this[0]
    val result = ArrayList<S>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun ByteArray.scanReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Byte>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```
accumulator value.

```kotlin
@SinceKotlin("1.3")
public inline fun ShortArray.scanReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Short>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

This function takes an array of `Short` and an operation function as parameters. It starts with the first element of the array and applies the operation function to each element, its index, and the current accumulator value to generate the next accumulator value. The function returns a `List` containing the successive accumulation values generated by applying the operation from left to right on each element of the array.

```kotlin
@SinceKotlin("1.3")
public inline fun IntArray.scanReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Int>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

This function is similar to the `ShortArray` version but operates on arrays of `Int` instead.

```kotlin
@SinceKotlin("1.3")
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Long>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

Another version operates on `Long` arrays.

```kotlin
@SinceKotlin("1.3")
public inline fun FloatArray.scanReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Float>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

This version works with `Float` arrays.

```kotlin
@SinceKotlin("1.3")
public inline fun DoubleArray.scanReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Double>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

Finally, the `DoubleArray` version operates on `Double` arrays.
if (isEmpty()) return emptyList()

val accumulator = this[0]

result.add(accumulator)

result.add(accumulator)

return result

val result = ArrayList<Int>(size).apply {
    var accumulator = this[0]

    if (isEmpty()) return emptyList()

    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])

        result.add(accumulator)
    }

    return result
}

public inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {
    var sum: Double = 0.0

    for (element in this) {
        sum += selector(element)
    }

    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {
    var sum: Double = 0.0

    for (element in this) {
        sum += selector(element)
    }

    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {
    var sum: Double = 0.0

    for (element in this) {
        sum += selector(element)
    }

    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun DoubleArray.sumByDouble(selector: (Double) -> Int): Int {
    var sum: Int = 0

    for (element in this) {
        sum += selector(element)
    }

    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun LongArray.sumByDouble(selector: (Long) -> Int): Int {
    var sum: Int = 0

    for (element in this) {
        sum += selector(element)
    }

    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun CharArray.sumBy(selector: (Char) -> Int): Int {
    var sum: Int = 0

    for (element in this) {
        sum += selector(element)
    }

    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {
    var sum: Int = 0

    for (element in this) {
        sum += selector(element)
    }

    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0

    for (element in this) {
        sum += selector(element)
    }

    return sum
}
produced by [selector] function applied to each element in the array.

```kotlin
public inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
public inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.
 */
public fun <T : Any> Array<T?>.requireNoNulls(): Array<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as Array<T>
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`, \n * while *second* list contains elements for which [predicate] yielded `false`.
 */
public inline fun List<out T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`, \n * while *second* list contains elements for which [predicate] yielded `false`.
 */
public inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {
    val first = ArrayList<Byte>()
    val second = ArrayList<Byte>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`, \n * while *second* list contains elements for which [predicate] yielded `false`.
 */
public inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {
    val first = ArrayList<Short>()
    val second = ArrayList<Short>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`, \n * while *second* list contains elements for which [predicate] yielded `false`.
 */
public inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {
    val first = ArrayList<Int>()
    val second = ArrayList<Int>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`, \n * while *second* list contains elements for which [predicate] yielded `false`.
 */
public inline fun LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {
    val first = ArrayList<Long>()
    val second = ArrayList<Long>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}
```
FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {
    val first = ArrayList<Float>()
    val second = ArrayList<Float>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists, where *first* list contains elements for which
 * predicate yielded `true`, while *second* list contains elements for which [predicate] yielded `false`.
 * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives
 */
public inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {
    val first = ArrayList<Double>()
    val second = ArrayList<Double>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists, where *first* list contains elements for which
 * predicate yielded `true`, while *second* list contains elements for which [predicate] yielded `false`.
 * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives
 */
public inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {
    val first = ArrayList<Boolean>()
    val second = ArrayList<Boolean>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original array into pair of lists, where *first* list contains elements for which
 * predicate yielded `true`, while *second* list contains elements for which [predicate] yielded `false`.
 * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives
 */
public inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {
    val first = ArrayList<Char>()
    val second = ArrayList<Char>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other]
 * array with the same index. The returned list has length of the shortest collection.
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. The returned list has length of the shortest collection.
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. The returned list has length of the shortest collection.
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. The returned list has length of the shortest collection.
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 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. The returned list has length of the shortest collection.
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. The returned list has length of the shortest collection.
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. The returne
BooleanArray.zip(other: Array<out R>): List<Pair<out Boolean, R>> {
    return zip(other) { t1, t2 -> t1 to t2
}.
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
 * index
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <R> CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public inline fun <T, R, V> Array<out T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public inline fun <R, V> ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public inline fun <R, V> IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public inline fun <R, V> FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public inline fun <R, V> DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 */
@sample

samples.collections.Operations.zipWithTransform

CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
@sample

CharArray.zip(other: Collection<R>): List<Pair<Char, R>> = ArrayOut<T>.zip(other:
Iterable<R>): List<Pair<T, R>> {
    return zip(other: Iterable<R>) {
        return zip(other) { t1, t2 -> t1 to t2 }
    }
}

/**
 * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
@sample

CharArray.zip(other: Collection<R>): List<Pair<Char, R>> = ArrayOut<T>.zip(other:
Iterable<R>): List<Pair<T, R>> {
    return zip(other: Iterable<R>) {
        return zip(other) { t1, t2 -> t1 to t2 }
    }
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 */
@sample

CharArray.zip(other: Collection<R>): List<Pair<Char, R>> = ArrayOut<T>.zip(other:
Iterable<R>): List<Pair<T, R>> {
    return zip(other: Iterable<R>) {
        return zip(other) { t1, t2 -> t1 to t2 }
    }
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 */
@sample

CharArray.zip(other: Collection<R>): List<Pair<Char, R>> = ArrayOut<T>.zip(other:
Iterable<R>): List<Pair<T, R>> {
    return zip(other: Iterable<R>) {
        return zip(other) { t1, t2 -> t1 to t2 }
    }
}
collection.<n * <n * @sample samples.collections.Operations.zipIterableWithTransform

public inline fun <R, V> ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
public inline fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
public inline fun <R, V> IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
public inline fun <R, V> FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
public inline fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
public inline fun <R, V> BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Operations.zipIterableWithTransform
 */
public inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}
for (element in other) { 
    if (i >= arraySize) break 
    list.add(transform(this[i++], element)) 
} return list 

* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. 

* The returned list has length of the shortest collection. 

* * @sample samples.collections.Iterables.Operations.zipIterable 

*unpublic infun ByteArray.zip(other: ByteArray): 
List<Pair<Byte, Byte>> { 
    return zip(other) { t1, t2 -> t1 to t2 } 
} 

* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. 

* The returned list has length of the shortest collection. 

* * @sample samples.collections.Iterables.Operations.zipIterable 

*unpublic infun ShortArray.zip(other: ShortArray): 
List<Pair<Short, Short>> { 
    return zip(other) { t1, t2 -> t1 to t2 } 
} 

* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. 

* The returned list has length of the shortest collection. 

* * @sample samples.collections.Iterables.Operations.zipIterable 

*unpublic infun LongArray.zip(other: LongArray): 
List<Pair<Long, Long>> { 
    return zip(other) { t1, t2 -> t1 to t2 } 
} 

* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. 

* The returned list has length of the shortest collection. 

* * @sample samples.collections.Iterables.Operations.zipIterable 

*unpublic infun FloatArray.zip(other: FloatArray): 
List<Pair<Float, Float>> { 
    return zip(other) { t1, t2 -> t1 to t2 } 
} 

* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. 

* The returned list has length of the shortest collection. 

* * @sample samples.collections.Iterables.Operations.zipIterable 

*unpublic infun BooleanArray.zip(other: BooleanArray): 
List<Pair<Boolean, Boolean>> { 
    return zip(other) { t1, t2 -> t1 to t2 } 
} 

* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. 

* The returned list has length of the shortest collection. 

* * @sample samples.collections.Iterables.Operations.zipIterable 

*unpublic infun CharArray.zip(other: CharArray): 
List<Pair<Char, Char>> { 
    return zip(other) { t1, t2 -> t1 to t2 } 
} 

* Returns a list of values built from the elements of `this` array and the [other] array with the same index 

* using the provided [transform] function applied to each pair of elements. 

* The returned list has length of the shortest array. 

* * @sample samples.collections.Iterables.Operations.zipIterableWithTransform 

*unpublic inline fun <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> { 
    val size = minOf(size, other.size) 
    val list = ArrayList<V>(size) 
    for (i in 0 until size) { 
        list.add(transform(this[i], other[i])) 
    } 
    return list 
} 

* Returns a list of values built from the elements of `this` array and the [other] array with the same index 

* using the provided [transform] function applied to each pair of elements. 

* The returned list has length of the shortest array. 

* * @sample samples.collections.Iterables.Operations.zipIterableWithTransform 

*unpublic inline fun <V> ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> { 
    val size = minOf(size, other.size) 
    val list = ArrayList<V>(size) 
    for (i in 0 until size) { 
        list.add(transform(this[i], other[i])) 
    } 
    return list 
} 

* Returns a list of values built from the elements of `this` array and the [other] array with the same index 

* using the provided [transform] function applied to each pair of elements. 

* The returned list has length of the shortest array. 

* * @sample samples.collections.Iterables.Operations.zipIterableWithTransform 

*unpublic inline fun <V> IntArray.zip(other: IntArray, transform: (a: Int, b: Int) -> V): List<V> { 
    val size = minOf(size, other.size) 
    val list = ArrayList<V>(size) 
    for (i in 0 until size) { 
        list.add(transform(this[i], other[i])) 
    } 
    return list 
} 

* Returns a list of values built from the elements of `this` array and the [other] array with the same index 

* using the provided [transform] function applied to each pair of elements. 

* The returned list has length
of the shortest array.

```kotlin
public inline fun <V> LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] array using
 * the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
public inline fun <V> FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] array using
 * the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
public inline fun <V> DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] array using
 * the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
public inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * Returns a list of values built from the elements of 'this' array and the [other] array using
 * the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest array.
 */
public inline fun <V> CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

```kotlin
/**
 * Appends the string from all the elements separated using [separator] and using the
 * given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only
 * the first [limit] elements will be appended, followed by the [truncated] string
 * which defaults to '\n...\n'.
 */
public fun <T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```

```kotlin
/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of
 * [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string
 * which defaults to '\n...\n'.
 */
public fun <A : Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```

```kotlin
/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of
 * [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string
 * which defaults to '\n...\n'.
 */
public fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = "", prefix: CharSequence = ", ", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```

```kotlin
/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of
 * [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string
 * which defaults to '\n...\n'.
 */
public fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = "", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```

```kotlin
/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of
 * [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string
 * which defaults to '\n...\n'.
 */
public fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = "", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```

```kotlin
/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of
 * [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string
 * which defaults to '\n...\n'.
 */
public fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = "", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```

```kotlin
/**
 * Appends the string from all the elements separated using [separator] and using the given
 * [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of
 * [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string
 * which defaults to '\n...\n'.
 */
public fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = "", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```
null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(transform(element))
        else
            buffer.append(element.toString())
    }

    buffer.append(separator)
    if (limit < 0 || count <= limit) {
        if (transform != null)
            buffer.append(transform(element.toString()))
        else
            break
    } else
        break
}

if (limit >= 0 && count > limit) buffer.append(truncated)
buffer.append(postfix)
return buffer
}

@sample samples.collections.Collections
*public fun <A : Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = "", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? = null): A {
    buffer.append(transform(element))
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

@sample samples.collections.Collections
*public fun <A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = "", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): A {
    buffer.append(transform(element))
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

@sample samples.collections.Collections
*public fun <A : Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = "", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? = null): A {
    buffer.append(transform(element))
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
buffer.append(separator) if (limit > 0 && count > limit) buffer.append(truncated) return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...")\n * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun <T : Appendable> T.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): String {
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else
                buffer.append(transform(element.toString())
        } else break
    } if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix]
 * if supplied.\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only
 * the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...")\n * @sample samples.collections.Collections.Transformations.joinTo
 */
public fun <A : Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(prefix)
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix]
 * if supplied.\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only
 * the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...")\n * @sample samples.collections.Collections.Transformations.joinTo
 */
public fun <A : Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else
                buffer.append(transform(element.toString())
        } else break
    } if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix]
 * if supplied.\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only
 * the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...")\n * @sample samples.collections.Collections.Transformations.joinTo
 */
public fun <A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else
                buffer.append(transform(element.toString())
        } else break
    } if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix]
 * if supplied.\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only
 * the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...")\n * @sample samples.collections.Collections.Transformations.joinTo
 */
public fun <A : Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? = null): A {
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else
                buffer.append(transform(element.toString())
        } else break
    } if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
[Iterable] instance that wraps the original array returning its elements when being iterated.

@kotlin.jvm.JvmName("averageOfByte")
public fun Array<out Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

@kotlin.jvm.JvmName("averageOfShort")
public fun Array<out Short>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

@kotlin.jvm.JvmName("averageOfInt")
public fun Array<out Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

@kotlin.jvm.JvmName("averageOfLong")
public fun Array<out Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

@kotlin.jvm.JvmName("averageOfFloat")
public fun Array<out Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}
Double = 0.0n var count: Int = 0n for (element in this) { n sum += element\n  ++count\n } n return if (count == 0) Double.NaN else sum / countn }/* Returns an average value of elements in the array.*/

public fun Array<out Double>.average(): Double { n var sum: Double = 0.0n var count: Int = 0n for (element in this) { n sum += element\n  ++count\n } n return if (count == 0) Double.NaN else sum / countn }/* Returns an average value of elements in the array.*/

public fun ByteArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.*/
@kotlin.jvm.JvmName("averageOfDouble")
public fun Array<out Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.*/
public fun ByteArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.*/
public fun ShortArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.*/
public fun IntArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.*/
public fun LongArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.*/
public fun FloatArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.*/
public fun DoubleArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Array<out Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Array<out Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Array<out Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Array<out Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Array<out Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Array<out Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun ByteArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun ShortArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun IntArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun LongArray.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun FloatArray.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun DoubleArray.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/*
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 * license/LICENSE.txt file.
*/

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("RangesKt")

package kotlin.ranges

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
import kotlin.random.*

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun IntRange.random(): Int {
    return random(Random)
}

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun LongRange.random(): Long {
    return random(Random)
}

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun CharRange.random(): Char {
    return random(Random)
}

/**
 * Returns a random element from this range using the specified source of randomness.
 * 
 * @throws IllegalArgumentException if this range is empty.
*/
@SinceKotlin("1.3")
public fun IntRange.random(random: Random): Int {
    try {
        return random.nextInt(this)
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun IntRange.randomOrNull(): Int? {
    if (isEmpty())
        return null
    return random.nextInt(this)
}

/**
 * Returns `true` if this range contains the specified `element`.
 * 
 * Always returns `false` if the `element` is `null`.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline operator fun IntRange.contains(element: Int?): Boolean {
    return element != null && contains(element)
}

/**
 * Returns `true` if this range contains the specified `element`.
 * 
 * Always returns `false` if the `element` is `null`.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline operator fun LongRange.contains(element: Long?): Boolean {
    return element != null && contains(element)
}

/**
 * Returns `true` if this range contains the specified `element`.
 * 
 * Always returns `false` if the `element` is `null`.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline operator fun CharRange.contains(element: Char?): Boolean {
    return element != null && contains(element)
}

open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 4417
public operator fun

ClosedRange<Byte>.contains(value: Byte): Boolean {

    return contains(value.toInt())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("byteRangeContains")
public operator fun

ClosedRange<Int>.contains(value: Byte): Boolean {

    return contains(value.toInt())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("intRangeContains")
public operator fun

ClosedRange<Long>.contains(value: Byte): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Short>.contains(value: Byte): Boolean {

    return contains(value.toShort())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("shortRangeContains")
public operator fun

ClosedRange<ByteArray>.contains(value: Byte): Boolean {

    return contains(value.toInt())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("byteRangeContains")
public operator fun

ClosedRange<Double>.contains(value: Byte): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Float>.contains(value: Byte): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun

ClosedRange<Int>.contains(value: Double): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Long>.contains(value: Double): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<ByteArray>.contains(value: Double): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Int>.contains(value: Double): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Long>.contains(value: Double): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<ByteArray>.contains(value: Double): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Int>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Long>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<ByteArray>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Int>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Long>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<ByteArray>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Int>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Long>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<ByteArray>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Int>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Long>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<ByteArray>.contains(value: Float): Boolean {

    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun

ClosedRange<Int>.contains(value: Float): Boolean {

    return contains(value.toLong())
}
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Float): Boolean {
    return contains(value.toDouble())
}

@kotlin.jvm.JvmName("longRangeContains")
public operator fun ClosedRange<Long>.contains(value: Int): Boolean {
    return contains(value.toLong())
}

@kotlin.jvm.JvmName("byteRangeContains")
public operator fun ClosedRange<Byte>.contains(value: Int): Boolean {
    return contains(value.toByteExactOrNull().let { if (it != null) contains(it) else false })
}

@kotlin.jvm.JvmName("shortRangeContains")
public operator fun ClosedRange<Short>.contains(value: Int): Boolean {
    return contains(value.toShortExactOrNull().let { if (it != null) contains(it) else false })
}

@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Int): Boolean {
    return contains(value.toDouble())
}

@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Int): Boolean {
    return contains(value.toFloat())
}

@enum
@kotlin.jvm.JvmName("doubleRangeContains")
public enum RangeContains {
    START, MIDDLE, END,
    }

@kotlin.jvm.JvmName("doubleRangeContains")
public fun RangeContains.getRangeInclusive(start: Double, end: Double): ClosedRange<Double> {
    return when (this) {
        START -> ClosedRange(start, end)
        MIDDLE -> ClosedRange(start, end)
        END -> ClosedRange(start, end)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
public fun RangeContains.getRangeExclusive(start: Double, end: Double): ClosedRange<Double> {
    return when (this) {
        START -> ClosedRange(start, end)
        MIDDLE -> ClosedRange(start, end)
        END -> ClosedRange(start, end)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
public fun RangeContains.getRange(start: Double, end: Double): ClosedRange<Double> {
    return when (this) {
        START -> ClosedRange(start, end)
        MIDDLE -> ClosedRange(start, end)
        END -> ClosedRange(start, end)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
    return when (this) {
        START -> ClosedRange(startLong, endLong)
        MIDDLE -> ClosedRange(startLong, endLong)
        END -> ClosedRange(startLong, endLong)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
    return when (this) {
        START -> ClosedRange(startLong, endLong)
        MIDDLE -> ClosedRange(startLong, endLong)
        END -> ClosedRange(startLong, endLong)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
public fun RangeContains.getRange(startLong: Long, endLong: Long): ClosedRange<Long> {
    return when (this) {
        START -> ClosedRange(startLong, endLong)
        MIDDLE -> ClosedRange(startLong, endLong)
        END -> ClosedRange(startLong, endLong)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
public fun RangeContains.getRangeInclusive(startByte: Byte, endByte: Byte): ClosedRange<Byte> {
    return when (this) {
        START -> ClosedRange(startByte, endByte)
        MIDDLE -> ClosedRange(startByte, endByte)
        END -> ClosedRange(startByte, endByte)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
public fun RangeContains.getRangeExclusive(startByte: Byte, endByte: Byte): ClosedRange<Byte> {
    return when (this) {
        START -> ClosedRange(startByte, endByte)
        MIDDLE -> ClosedRange(startByte, endByte)
        END -> ClosedRange(startByte, endByte)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
public fun RangeContains.getRange(startByte: Byte, endByte: Byte): ClosedRange<Byte> {
    return when (this) {
        START -> ClosedRange(startByte, endByte)
        MIDDLE -> ClosedRange(startByte, endByte)
        END -> ClosedRange(startByte, endByte)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
public fun RangeContains.getRangeInclusive(startShort: Short, endShort: Short): ClosedRange<Short> {
    return when (this) {
        START -> ClosedRange(startShort, endShort)
        MIDDLE -> ClosedRange(startShort, endShort)
        END -> ClosedRange(startShort, endShort)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
public fun RangeContains.getRangeExclusive(startShort: Short, endShort: Short): ClosedRange<Short> {
    return when (this) {
        START -> ClosedRange(startShort, endShort)
        MIDDLE -> ClosedRange(startShort, endShort)
        END -> ClosedRange(startShort, endShort)
        else -> throw IllegalArgumentException
    }
}

@kotlin.jvm.JvmName("doubleRangeContains")
public fun RangeContains.getRange(startShort: Short, endShort: Short): ClosedRange<Short> {
    return when (this) {
        START -> ClosedRange(startShort, endShort)
        MIDDLE -> ClosedRange(startShort, endShort)
        END -> ClosedRange(startShort, endShort)
        else -> throw IllegalArgumentException
    }
}
The \[to\] value should be less than or equal to `this` value.\n* If the \[to\] value is greater than `this` value the returned progression is empty.\n*\n\n\n*/

```kotlin
public infix fun Int.downTo(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1L)\n\n\n* Returns a progression from this value down to the specified \[to\] value with the step -1.\n* The \[to\] value should be less than or equal to `this` value.\n* If the \[to\] value is greater than `this` value the returned progression is empty.\n*\n\n\n*/

```
LongProgression { return LongProgression.fromClosedRange(this, to.toLong(), -1L)}

LongProgression { return LongProgression.fromClosedRange(this, toLong(), -1L)}

// Returns a progression from this value down to the specified [to] value with the step -1.
// The [to] value should be less than or equal to `this` value.
// If the [to] value is greater than `this` value the returned progression is empty.

//public infix fun Byte.downTo(to: Short): IntProgression { return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Byte.downTo(to: Short): IntProgression { return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun IntProgression.reversed(): IntProgression { return IntProgression.fromClosedRange(last, first, -step)}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun LongProgression.reversed(): LongProgression { return LongProgression.fromClosedRange(last, first, -step)}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun CharProgression.reversed(): CharProgression { return CharProgression.fromClosedRange(last, first, -step)}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun IntProgression.step(step: Int): IntProgression { return IntProgression.fromClosedRange(first, last, step)}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun LongProgression.step(step: Long): LongProgression { return LongProgression.fromClosedRange(first, last, step)}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun CharProgression.step(step: Int): CharProgression { return CharProgression.fromClosedRange(first, last, step)}

internal fun Int.toByteExactOrNull(): Byte? { return if (this in Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null}

internal fun Long.toByteExactOrNull(): Byte? { return if (this in Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null}

internal fun Short.toByteExactOrNull(): Byte? { return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null}

internal fun Double.toByteExactOrNull(): Byte? { return if (this in Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toByte() else null}

internal fun Float.toByteExactOrNull(): Byte? { return if (this in Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toByte() else null}

internal fun Long.toIntExactOrNull(): Int? { return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong()) this.toInt() else null}

internal fun Double.toIntExactOrNull(): Int? { return if (this in Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null}

internal fun Float.toIntExactOrNull(): Int? { return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null}

internal fun Double.toLongExactOrNull(): Long? { return if (this in Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null}

internal fun Float.toLongExactOrNull(): Long? { return if (this in Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null}

internal fun Short.toLongExactOrNull(): Long? { return if (this in Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toLong() else null}

internal fun Byte.toLongExactOrNull(): Long? { return if (this in Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toLong() else null}

internal fun Short.toDoubleExactOrNull(): Float? { return if (this in Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toDouble() else null}

internal fun Byte.toDoubleExactOrNull(): Float? { return if (this in Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toDouble() else null}

internal fun Short.toFloatExactOrNull(): Float? { return if (this in Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toFloat() else null}

internal fun Byte.toFloatExactOrNull(): Float? { return if (this in Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toFloat() else null}

internal fun Short.toCharExactOrNull(): Char? { return if (this in Short.MIN_VALUE.toChar()..Short.MAX_VALUE.toChar()) this.toChar() else null}

internal fun Byte.toCharExactOrNull(): Char? { return if (this in Byte.MIN_VALUE.toChar()..Byte.MAX_VALUE.toChar()) this.toChar() else null}

internal fun Short.toFloatExactOrNull(): Float? { return if (this in Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toFloat() else null}

internal fun Byte.toShortExactOrNull(): Short? { return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toShort() else null}

internal fun Short.toFloatExactOrNull(): Float? { return if (this in Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toFloat() else null}

internal fun Byte.toShortExactOrNull(): Short? { return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toShort() else null}
T.coerceAtLeast(minimumValue: T): T {
    return if (this < minimumValue) minimumValue else this
}

/**
* Ensures that this value is not less than the specified [minimumValue].
* @return this value if it's greater than or equal to the [minimumValue] or the [maximumValue] otherwise.
* @sample samples.comparisons.ComparableOps.coerceAtLeast
*/
public fun Byte.coerceAtLeast(minimumValue: Byte): Byte {
    return if (this < minimumValue) minimumValue else this
}

/**
* Ensures that this value is not less than the specified [minimumValue].
* @return this value if it's greater than or equal to the [minimumValue] or the [maximumValue] otherwise.
* @sample samples.comparisons.ComparableOps.coerceAtLeast
*/
public fun Short.coerceAtLeast(minimumValue: Short): Short {
    return if (this < minimumValue) minimumValue else this
}

/**
* Ensures that this value is not less than the specified [minimumValue].
* @return this value if it's greater than or equal to the [minimumValue] or the [maximumValue] otherwise.
* @sample samples.comparisons.ComparableOps.coerceAtLeast
*/
public fun Int.coerceAtLeast(minimumValue: Int): Int {
    return if (this < minimumValue) minimumValue else this
}

/**
* Ensures that this value is not less than the specified [minimumValue].
* @return this value if it's greater than or equal to the [minimumValue] or the [maximumValue] otherwise.
* @sample samples.comparisons.ComparableOps.coerceAtLeast
*/
public fun Long.coerceAtLeast(minimumValue: Long): Long {
    return if (this < minimumValue) minimumValue else this
}

/**
* Ensures that this value is not less than the specified [minimumValue].
* @return this value if it's greater than or equal to the [minimumValue] or the [maximumValue] otherwise.
* @sample samples.comparisons.ComparableOps.coerceAtLeast
*/
public fun Float.coerceAtLeast(minimumValue: Float): Float {
    return if (this < minimumValue) minimumValue else this
}

/**
* Ensures that this value is not greater than the specified [maximumValue].
* @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
* @sample samples.comparisons.ComparableOps.coerceAtMost
*/
public fun Byte.coerceAtMost(maximumValue: Byte): Byte {
    return if (this > maximumValue) maximumValue else this
}

/**
* Ensures that this value is not greater than the specified [maximumValue].
* @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
* @sample samples.comparisons.ComparableOps.coerceAtMost
*/
public fun Short.coerceAtMost(maximumValue: Short): Short {
    return if (this > maximumValue) maximumValue else this
}

/**
* Ensures that this value is not greater than the specified [maximumValue].
* @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
* @sample samples.comparisons.ComparableOps.coerceAtMost
*/
public fun Int.coerceAtMost(maximumValue: Int): Int {
    return if (this > maximumValue) maximumValue else this
}

/**
* Ensures that this value is not greater than the specified [maximumValue].
* @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
* @sample samples.comparisons.ComparableOps.coerceAtMost
*/
public fun Long.coerceAtMost(maximumValue: Long): Long {
    return if (this > maximumValue) maximumValue else this
}

/**
* Ensures that this value is not greater than the specified [maximumValue].
* @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
* @sample samples.comparisons.ComparableOps.coerceAtMost
*/
public fun Float.coerceAtMost(maximumValue: Float): Float {
    return if (this > maximumValue) maximumValue else this
}
samples.comparisons.ComparableOps.coerceAtMost

@public
fun
Double.coerceAtMost(maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue else this
}

@public
fun
ComparableOps.coerceInComparable<T>(minimumValue: T?, maximumValue: T?): T {
    return if (minimumValue == null && maximumValue == null) this
    else
        if (minimumValue != null && this < minimumValue) return minimumValue
        if (maximumValue != null && this > maximumValue) return maximumValue
        return this
}

@public
fun
Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

@public
fun
Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

@public
fun
Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

@public
fun
Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

@public
fun
Float.coerceIn(minimumValue: Float, maximumValue: Float): Float {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

@public
fun
Double.coerceAtMost(maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue else this
}

@public
fun
ComparableOps.coerceAtMost(maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue else this
}

@public
fun
ComparableOps.coerceInComparable<T>(minimumValue: T?, maximumValue: T?): T {
    return if (minimumValue == null && maximumValue == null) this
    else
        if (minimumValue != null && this < minimumValue) return minimumValue
        if (maximumValue != null && this > maximumValue) return maximumValue
        return this
}

@public
fun
Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

@public
fun
Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

@public
fun
Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

@public
fun
Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

@public
fun
Float.coerceIn(minimumValue: Float, maximumValue: Float): Float {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}
samples.comparisons.ComparableOps.coerceIn

/*
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 */

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {

    companion object {
        /**
         * A constant holding the minimum value an instance of UByte can have.
         */
        const val MIN_VALUE: UByte = UByte(0)

        /**
         * A constant holding the maximum value an instance of UByte can have.
         */
        const val MAX_VALUE: UByte = UByte(-1)

        /**
         * The number of bits used to represent an instance of UByte in a binary form.
         */
        const val SIZE_BITS: Int = 8

        /**
         * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
         */
        var @kotlin.experimental.Suppress("OVERRIDE_BY_INLINE")@PublishedApi @PublishedApi inline fun UByte.compareTo(other: UByte): Int =
this.toInt().compareTo(other.toInt())
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: ULong): Int =
this.toULong().compareTo(other)
/** Adds the other value to this value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())
/** Adds the other value to this value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun plus(other: UShort): UInt =
this.toUInt().plus(other.toUInt())
/** Adds the other value to this value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)
/** Adds the other value to this value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)
/** Subtracts the other value from this value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt())
/** Subtracts the other value from this value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt())
/** Subtracts the other value from this value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun minus(other: UInt): UInt =
this.toUInt().minus(other)
/** Subtracts the other value from this value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)
/** Multiplies this value by the other value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())
/** Multiplies this value by the other value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())
/** Multiplies this value by the other value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun times(other: UInt): UInt =
this.toUInt().times(other)
/** Multiplies this value by the other value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)
/** Divides this value by the other value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun div(other: UByte): UInt =
this.toUInt().div(other.toUInt())
/** Divides this value by the other value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun div(other: UShort): UInt =
this.toUInt().div(other.toUInt())
/** Divides this value by the other value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)
/** Divides this value by the other value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)
/** Calculates the remainder of dividing this value by the other value.
 * @kotlin.internal.InlineOnly
 * public inline operator fun rem(oth
/**
 * Determines if the specified value is less than or equal to the maximum value
 * of the type.
 */
public inline fun isLessThanOrEqualTo(maximum: UByte): Boolean = value <= maximum

/**
 * Determines if the specified value is less than the maximum value
 * of the type.
 */
public inline fun isLessThan(maximum: UByte): Boolean = value < maximum

/**
 * Determines if the specified value is greater than or equal to the maximum
 * value of the type.
 */
public inline fun isGreaterThanOrEqualTo(minimum: UByte): Boolean = value >= minimum

/**
 * Determines if the specified value is greater than the minimum value
 * of the type.
 */
public inline fun isGreaterThan(minimum: UByte): Boolean = value > minimum

/**
 * Determines if the specified value is equal to the maximum value
 * of the type.
 */
public inline fun isEqualTo(maximum: UByte): Boolean = value == maximum

/**
 * Determines if the specified value is not equal to the maximum value
 * of the type.
 */
public inline fun isNotEqualTo(maximum: UByte): Boolean = value != maximum

/**
 * Performs a bitwise OR operation between the two values.
 * @param other the other value to perform the operation with.
 * @return the result of the operation.
 */
@kotlin.internal.InlineOnly
public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)

/**
 * Performs a bitwise XOR operation between the two values.
 * @param other the other value to perform the operation with.
 * @return the result of the operation.
 */
@kotlin.internal.InlineOnly
public inline infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)

/** Inverts the bits in this value.
 * @return the result of the inversion.
 */
@kotlin.internal.InlineOnly
public inline fun inv(): UByte = UByte(data.inv())

/**
 * Converts this UByte value to a Byte value.
 * The resulting Byte value represents the same numerical value as this
 * UByte value.
 * @return the result of the conversion.
 */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data

/**
 * Converts this UByte value to a Short value.
 * The resulting Short value represents the same numerical value as this
 * UByte value.
 * @return the result of the conversion.
 */
@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data.toShort() and 0xFF

/**
 * Converts this UByte value to an Int value.
 * The resulting Int value represents the same numerical value as this
 * UByte value.
 * @return the result of the conversion.
 */
@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt() and 0xFF

/**
 * Converts this UByte value to a Long value.
 * The resulting Long value represents the same numerical value as this
 * UByte value.
 * @return the result of the conversion.
 */
@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data.toLong() and 0xFF

/** Returns this value.
 * @return the result of the operation.
 */
@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = this

/**
 * Converts this UByte value to a UShort value.
 * The resulting UShort value represents the same numerical value as this
 * UByte value.
 * @return the result of the conversion.
 */
@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)

/**
 * Converts this UByte value to an UInt value.
 * The resulting UInt value represents the same numerical value as this
 * UByte value.
 * @return the result of the conversion.
 */
@kotlin.internal.InlineOnly
public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)

/**
 * Converts this UByte value to a ULong value.
 * The resulting ULong value represents the same numerical value as this
 * UByte value.
 * @return the result of the conversion.
 */
@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)

/**
 * Converts this UByte value to a Float value.
 * The resulting Float value represents the same numerical value as this
 * UByte value.
 * @return the result of the conversion.
 */
@kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toInt().toFloat()

/**
 * Converts this UByte value to a Double value.
 * The resulting Double value represents the same numerical value as this
 * UByte value.
 * @return the result of the conversion.
 */
@kotlin.internal.InlineOnly
public inline fun toDouble(): Double = this.toInt().toDouble()
positive and less than or equals to [UByte.MAX_VALUE], the resulting ‘UByte’ value represents the same numerical value as this ‘Int’.

*\n* The resulting ‘UByte’ value is represented by the least significant 8 bits of this ‘Int’.\n
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly
public inline fun Int.toUByte(): UByte = UByte(this.toByte())\n
/**
 * Converts this [Long] value to [UByte].\n *
 * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting ‘UByte’ value represents the same numerical value as this ‘Long’.\n *
 * The resulting ‘UByte’ value is represented by the least significant 8 bits of this ‘Long’.
 */
*\n* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n*/
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly
public inline fun Long.toUByte(): UByte = UByte(this.toByte())\n
/**
 * Converts this [Long] value to [UByte].
 *
 * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting ‘UByte’ value represents the same numerical value as this ‘Long’.\n *
 * The resulting ‘UByte’ value is represented by the least significant 8 bits of this ‘Long’.
 */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly
public inline fun Long.toUByte(): UByte = UByte(this.toByte())\n
/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n*/

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt> {

    companion object {
        /**
         * A constant holding the minimum value an instance of UInt can have.
         */
        public const val MIN_VALUE: UInt = UInt(0)

        /**
         * A constant holding the maximum value an instance of UInt can have.
         */
        public const val MAX_VALUE: UInt = UInt(-1)

        /**
         * The number of bytes used to represent an instance of UInt in a binary form.
         */
        public const val SIZE_BYTES: Int = 4

        /**
         * The number of bits used to represent an instance of UInt in a binary form.
         */
        public const val SIZE_BITS: Int = 32
    }

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UInt): Int = uintCompare(this.data, other.data)

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UInt): UInt = UInt(this.data.minus(other.data))

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: ULong): ULong = this.toULong().times(other)
of this `UInt` value.

*/
    @kotlin.internal.InlineOnly
    public inline fun toUByte(): UByte =
data.toUByte()  /** Converts this [UInt] value to [UShort]. */

    @kotlin.internal.InlineOnly
    public inline fun toUShort(): UShort = data.toUShort()  /** Returns this value.
     */
    @kotlin.internal.InlineOnly
    public inline fun toUInt(): UInt = this
    /**
     * Converts this [UInt] value to [ULong].
     *
     * The resulting `ULong` value represents the same numerical value as this `UInt`.  
     * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value.
     * whereas the most significant 32 bits are filled with zeros.
     */
    @kotlin.internal.InlineOnly
    public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)

    /**
     * Converts this [UInt] value to [Float].
     *
     * The fractional part, if any, is rounded down towards zero. Returns zero if this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.
     */
    @kotlin.internal.InlineOnly
    public inline fun toFloat(): Float = doubleToUInt(this.toDouble())

    /**
     * Converts this [UInt] value to [Double].
     *
     * The fractional part, if any, is rounded down towards zero. Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.
     */
    @kotlin.internal.InlineOnly
    public inline fun toDouble(): Double = uintToDouble(data)

    public override fun toString(): String = toLong().toString()
MIN_VALUE: UShort = UShort(0)  
* A constant holding the maximum value an instance of UShort can have.

MAX_VALUE: UShort = UShort(-1)  
* The number of bytes used to represent an instance of UShort in a binary form.

SIZE_BYTES: Int = 2

SIZE_BITS: Int = 16

* A constant holding the maximum value an instance of UShort can have.
* A positive number if it's less than other,
* or a positive number if it's greater than other.

Comparing two values:

Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
* or a positive number if it's greater than other.

Comparing with specified value:

Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
* or a positive number if it's greater than other.

Comparing with UByte:

Comparing with UShort:

Comparing with UInt:

Comparing with ULong:

Adding:

Subtracting:

Multiplying:

Dividing:

Calculating the remainder:

Public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())

Public inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())

Public inline operator fun compareTo(other: UInt): Int = this.compareTo(other)

Public inline operator fun compareTo(other: ULong): Int = this.compareTo(other)

This code defines various properties and operators for the UShort class, including constants for minimum and maximum values, and methods for comparison, arithmetic operations, and conversions to different numeric types.
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)
/** Increments this value. */
@kotlin.internal.InlineOnly
public inline operator fun inc(): UShort = UShort(data.inc())
/** Increments this value. */
@kotlin.internal.InlineOnly
public inline operator fun dec(): UShort = UShort(data.dec())
/** Creates a range from this value to the specified [other] value. */
@kotlin.internal.InlineOnly
public inline operator fun rangeTo(other: UShort): UIntRange =(UIntRange(this.toUInt(), other.toUInt()))
/** Performs a bitwise AND operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun and(other: UShort): UShort = UShort(this.data and other.data)
/** Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun or(other: UShort): UShort = UShort(this.data or other.data)
/** Performs a bitwise XOR operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun xor(other: UShort): UShort = UShort(this.data xor other.data)
/** Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public inline fun inv(): UShort = UShort(data.inv())
/** Converts this [UShort] value to [Byte]. */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()}
/** Converts this [UShort] value to [UByte]. */
@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte()
/** Returns this value. */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() /* This method is provided for compatibility with Byte. */
/** Converts this [UShort] value to [Short]. */
@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data
/** Converts this [UShort] value to [Int]. */
@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt()
/** Converts this [UShort] value to [Long]. */
@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data.toLong() and 0xFFFF
/** Converts this [UShort] value to [ULong]. */
@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)
/** Converts this [UShort] value to [Float]. */
@kotlin.internal.InlineOnly
public inline fun toFloat(): Float = thistoFloat()
/** Converts this [UShort] value to [Double]. */
@kotlin.internal.InlineOnly
public inline fun toDouble(): Double = this.toDouble()
value as this `Byte`. The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `Byte` value whereas the most significant 8 bits are filled with the sign bit of this value.

```
Byte.toUShort(): UShort = UShort(this.toShort())/* * Converts this [Short] value to [UShort]. * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Short`. * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents the same numerical value as this `Int`. * The resulting `UShort` value is represented by the least significant 16 bits of this `Int` value.

```

```
override fun next(): Nothing = throw NoSuchElementException()
    override fun previous(): Nothing = throw NoSuchElementException()

    // Other methods

internal object EmptyList : List<Nothing>, Serializable, RandomAccess {
    private const val serialVersionUID: Long = -7390468764508069838L

    override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()
    override fun hashCode(): Int = 1
    override fun toString(): String = "[]"

    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false

    internal fun <T> Array<out T>.asCollection(): Collection<T> = ArrayAsCollection(this, isVarargs = false)

    internal class ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T> {
        override val size: Int get() = values.size
        override fun isEmpty(): Boolean = values.isEmpty()
        override fun contains(element: T): Boolean = values.contains(element)
        override fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }
        override fun iterator(): Iterator<T> = values.iterator()
        // override hidden toArray implementation to prevent copying of values array
        public fun toArray(): Array<out Any?> = values.copyToArrayOfAny(isVarargs)

        /**
         * Returns an empty read-only list. The returned list is serializable (JVM).
         */
        public fun <T> emptyList(): List<T> = EmptyList

        /**
         * Returns a new read-only list of given elements. The returned list is serializable (JVM).
         */
        public fun <T> listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()

        /**
         * Returns an empty new [MutableList].
         */
        @SinceKotlin("1.1")
        public inline fun <T> mutableListOf(): MutableList<T> = ArrayList()

        /**
         * Returns a new read-only list either of single given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).
         */
        public fun <T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()

        /**
         * Returns a new read-only list only of those given elements, that are not null. The returned list is serializable (JVM).
         */
        public fun <T : Any> listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()

        /**
         * Creates a new read-only list with the specified [size], where each element is calculated by calling the specified [init] function. The function [init] is called for each list element sequentially starting from the first one. It should return the value for a list element given its index.
         */
        @Sample
        fun <T, Init>(size: Int, init: Init): List<Init> = Array(size, init)
    }

    /**
     * Returns an empty read-only list. The returned list is serializable (JVM).
     */
    @Sample
    fun emptyList(): List<Nothing> = EmptyList

    /**
     * Returns a new read-only list of given elements. The returned list is serializable (JVM).
     */
    @Sample
    fun listOf(vararg elements: Nothing): List<Nothing> = if (elements.size > 0) elements.asList() else emptyList()
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> List(size: Int, init: (index: Int) -> T): List

*@

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList

*@

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>.() -> Unit): List<E> {
    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
    return ArrayList<E>().apply(builderAction)
}

/**
 * Builds a new read-only [List] by populating a [MutableList] using the given
 * [builderAction] and returning a read-only list with the same elements.
 * The list passed as a receiver to the [builderAction] is valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>.() -> Unit): List<E> {
    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
    return ArrayList<E>().apply(builderAction)
}

/**
 * Returns an [IntRange] of the valid indices for this
 * collection.
 */
public val Collection<*>.indices: IntRange
    get() = 0..size - 1

/**
 * Returns the index of the last item in the list or -1 if
 * the list is empty.
 */
public val <T> List<T>.lastIndex: Int
    get() = this.size - 1

/**
 * Returns `true` if the collection is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()

/**
 * Returns `true` if this nullable collection is
 * either null or empty.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }

    return this == null || this.isEmpty()
}

/**
 * Returns this collection if it's not empty
 * or the result of calling [defaultValue] function if the collection is
 * empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R =
    if (isEmpty()) defaultValue() else this

/**
 * Checks if all
 * elements in the specified collection are contained in this collection.
 */
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)

internal fun <T>
List<T>.optimizeReadOnlyList() = when (size) {
    0 -> emptyList()
    1 -> listOf(this[0])
    else ->
        this
    }

/**
 * Searches this list or its range for the provided [element] using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements.
 * otherwise the result is undefined. [element] is not contained in the list within the specified range.
 * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.
 * `null` value is considered to be less than any non-null value.
 * @return the index of the element, if it is contained in the list within the specified range.
 * The insertion point is defined as the index at which the element should be inserted.
 * so that the list (or the specified subrange of list) still remains sorted.
 * @sample samples.collections.Collections.Lists.binarySearch
 */
public fun <T : Comparable<T>> List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {
    rangeCheck(size, fromIndex, toIndex)

    var low = fromIndex
    var high = toIndex - 1

    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = compareValues(midVal, element)
        if (cmp < 0)
            low = mid + 1
        else if (cmp > 0)
            high = mid - 1
        else
            return mid // key found
    }
    return -(low + 1)  // key not found
}

/**
 * Searches this list or its range for the provided [element] using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to the specified [comparator],
 * otherwise the result is undefined. [element] is not contained in the list within the specified range.
 * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.
 * `null` value is considered to be less than any non-null value.
 * @return the index of the element, if it is contained in the list within the specified range.
 * The insertion point is defined as the index at which the element should be inserted.
 * so that the list (or the specified subrange of list) still remains sorted according to the specified [comparator].
 * @sample samples.collections.Collections.Lists.binarySearchWithComparator
 */
public fun <T> List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {
    rangeCheck(size, fromIndex, toIndex)

    var low = fromIndex
    var high = toIndex - 1

    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparator.compare(midVal, element)
        if (cmp < 0)
            low = mid + 1
        else if (cmp > 0)
            high = mid - 1
        else
            return mid // key found
    }
    return -(low + 1)  // key not found
}

/**
 * Searches this list or its range for an element having the key returned by the specified [selector] function
 * equal to the provided [key] value using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.
 * otherwise the result is undefined. [key] is not contained in the list within the specified range.
 * If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.
 * `null` value is considered to be less than any non-null value.
 * @return the index of the element with the specified [key], if it is contained in the list within the specified range.
 * The insertion point is defined as the index at which the element should be inserted.
 * so that the list (or the specified subrange of list) still remains sorted.
 * @sample samples.collections.Collections.Lists.binarySearchByKey
 */
public inline fun <T, K : Comparable<K>> List<T>.binarySearchBy(
    key: K?,
    fromIndex: Int = 0,
    toIndex: Int = size,
    crossinline selector: (T) -> K?
): Int =
    binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }

// do not introduce this overload --- too rare/public fun fun <T, K : Comparable<K>> List<T>.binarySearchByKey
    \n
after the target element, the function must return positive values.

* @return the index of the found element, if it is contained in the list within the specified range; otherwise, the inverted insertion point (`(insertion point - 1)`).

* The insertion point is defined as the index at which the element should be inserted.

@sample samples.collections.Collections.Lists.binarySearchWithComparisonFunction

/**
 * Checks that `from` and `to` are in the range of `[0..size)` and throws an appropriate exception, if they aren't.

 * @param fromIndex the lower bound (inclusive) of the range to search.
 * @param toIndex the upper bound (exclusive) of the range to search.
 * @return the index of the found element, if it is contained in the list within the specified range; otherwise, the inverted insertion point (`(insertion point - 1)`).
 * @throws IllegalArgumentException If `fromIndex` is greater than `toIndex`.
 * @throws IndexOutOfBoundsException If `fromIndex` is less than zero or `toIndex` is greater than size.
 */
public fun <T, V> List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {
    rangeCheck(size, fromIndex, toIndex)

    var low = fromIndex
    var high = toIndex - 1

    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparison(midVal)

        if (cmp < 0)
            low = mid + 1
        else if (cmp > 0)
            high = mid - 1
        else
            return mid // key found
        }
    return -(low + 1) // key not found
}

/**
 * Checks that `fromIndex` is greater than `toIndex`.
 */
private fun rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {
    when {
        fromIndex > toIndex -> throw IllegalArgumentException("fromIndex ($fromIndex) is greater than toIndex ($toIndex).")
        fromIndex < 0 -> throw IndexOutOfBoundsException("fromIndex ($fromIndex) is less than zero.")
        toIndex > size -> throw IndexOutOfBoundsException("toIndex ($toIndex) is greater than size ($size).")
    }
}

@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkIndexOverflow(index: Int): Int

@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkCountOverflow(count: Int): Int

@PublishedApi
@SinceKotlin("1.3")
internal fun throwIndexOverflow() { throw ArithmeticException("Index overflow has happened.") }

@PublishedApi
@SinceKotlin("1.3")
internal fun throwCountOverflow() { throw ArithmeticException("Count overflow has happened.") }

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")
@file:UseExperimental(kotlin.ExperimentalTypeInference::class)

package kotlin.collections

import kotlin.contracts.*

private object EmptyMap : Map<Any?, Nothing>, Serializable {
    private const val serialVersionUID: Long = 8246714829545688274

    override fun equals(other: Any?): Boolean = other is Map<*, *> && other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = "{}"

    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true

    override fun containsKey(key: Any?): Boolean = false
    override fun containsValue(value: Nothing): Boolean = false

    override fun get(key: Any?): Nothing? = null
    override fun containsEntry(entry: Map.Entry<Any?, Nothing>): Boolean = false
    override fun containsValue(entry: Map.Entry<Nothing, Any?>): Boolean = false

    private fun readResolve(): Any = EmptyMap
}

/**
 * Returns an empty read-only map.
 * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap
 */
public fun <K, V> emptyMap(): Map<K, V> = EmptyMap

/**
 * Returns a new read-only map with the specified contents, given as a list of pairs.
 * @sample samples.collections.Maps.Instantiation.mapFromPairs
 */
public fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> = pairs.toMap()

/**
 * Returns a new read-only map.
 * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap
 */
@PublishedApi
public fun <K, V> mapOf(): Map<K, V> = emptyMap()
*un * @sample samples.collections.Maps.Usage.mapOrEmpty

/**
 * @sample samples.collections.Maps.Usage.mapIfEmpty
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()

/**
 * Returns this map if it's not empty, or the result of calling [defaultValue] function if the map is empty.
 * @sample samples.collections.Maps.Usage.mapOrEmpty
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()

/**
 * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.
 * @sample samples.collections.Maps.Usage.mapIfEmpty
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()

/**
 * Checks if the map contains the given key.
 * @sample samples.collections.Maps.Usage.mapOrEmpty
 */
@kotlin.internal.InlineOnly
public inline operator fun Map<out K, V>.contains(key: K): Boolean = containsKey(key)

/**
 * Returns the value for the given [key], or the result of calling [defaultValue] function if the map does not contain the given key.
 * @sample samples.collections.Maps.Usage.mapOrEmpty
 */
@kotlin.internal.InlineOnly
public inline operator fun Map<out K, V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()

/**
 * Removes the specified key and its corresponding value from this map.
 * @return the previous value associated with the key, or `null` if the key was not present in the map.
 * @sample samples.collections.Maps.Usage.mapIfEmpty
 */
@kotlin.internal.InlineOnly
public inline operator fun Map<out K, V>.remove(key: K): V? = remove(key)

/**
 * Returns the key component of the map entry.
 */
@kotlin.internal.InlineOnly
public inline operator fun Map.Entry<K, V>.component1(): K = key

/**
 * Returns the value component of the map entry.
 */
@kotlin.internal.InlineOnly
public inline operator fun Map.Entry<K, V>.component2(): V = value

/**
 * Converts entry to [Pair] with key being first component and value being second.
 */
@kotlin.internal.InlineOnly
public inline fun Map.Entry<K, V>.toPair(): Pair<K, V> = toPair()

/**
 * Removes the specified key and its corresponding value from this map if the map contains the given key.
 * @return the previous value associated with the key, or `null` if the key was not present in the map.
 * @sample samples.collections.Maps.Usage.mapIfEmpty
 */
@kotlin.internal.InlineOnly
public inline operator fun Map<out K, V>.remove(key: K): V? = remove(key)

/**
 * Returns the value for the given key.
 * @sample samples.collections.Maps.Usage.mapOrEmpty
 */
@kotlin.internal.InlineOnly
public inline operator fun Map<out K, V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()

/**
 * Returns the value for the given key.
 * @sample samples.collections.Maps.Usage.mapOrEmpty
 */
@kotlin.internal.InlineOnly
public inline operator fun Map<out K, V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()
the [defaultValue] function.

* Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.

* @sample

samples.collections.Maps.Usage.getOrPut

* \n
\n
* Returns an [Iterator] over the entries in the [Map].

* @sample

samples.collections.Maps.Usage.forOverEntries

*/

public inline fun <K, V> MutableMap<K, V>.getOrPut(key: K,
    defaultValue: () -> V): V {
    val value = get(key)
    return if (value == null) {
        val answer =
            defaultValue()
        put(key, answer)
        answer
    } else {
        value
    }
}

/**

* Returns an

[Iterator]

over the entries in the

[Map].

*/

@kotlin.internal.InlineOnly
public inline operator fun <K, V> Map<out K, V>.iterator():

Iterator<Map.Entry<K, V>> = entries.iterator()

/**

* Returns a

[MutableIterator]

over the mutable entries in

the

[MutableMap].

*/

@kotlin.jvm.JvmName("mutableIterator")
@kotlin.internal.InlineOnly
public inline operator fun <K, V>.MutableMap<K, V>.iterator():

MutableIterator<MutableMap.MutableEntry<K, V>> =

entries.iterator()

/**

* Populates the given

[destination] map with entries having the keys of this map and the

values obtained

* by applying the [transform] function to each entry in this [Map].

* @sample

samples.collections.Maps.Transformations.mapValuesTo

*/

public inline fun <K, V, R, M : MutableMap<in R, in V>> Map<out K, V>.mapValuesTo(destination: M,
    transform: (Map.Entry<K, V>) -> R): M {
    return entries.associateByTo(destination, transform)
}

/**

* Populates the given

[destination] map with entries having the keys obtained

* by applying the [transform] function to each entry in this [Map].

* The returned map preserves the entry iteration order of the original map.

* @sample

samples.collections.Maps.Transformations.mapValues

*/

public inline fun <K, V> Map<out K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {
    return mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform)
}

/**

* Filters the map entries by the given [predicate].

* The returned map preserves the entry iteration order of the original map.

* @sample

samples.collections.Maps.Transformations.filterKeys

*/

public inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {
    val result =
        LinkedHashMap<K, V>()
    for (entry in this) {
        if (predicate(entry.key)) {
            result.put(entry.key,
                entry.value)
        }
    }
    return result
}

/**

* Filters the map entries by the given [predicate].

* The returned map preserves the entry iteration order of the original map.

* @sample

samples.collections.Maps.Transformations.filterValues

*/

public inline fun <K, V> Map<out K, V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {
    val result =
        LinkedHashMap<K, V>()
    for (entry in this) {
        if (predicate(entry.value)) {
            result.put(entry.key,
                entry.value)
        }
    }
    return result
}
    for (element in this) {
        if (predicate(element)) {
            destination.put(element.key, element.value)
        }
    }
    return destination
}

/**
 * Returns a new map containing all key-value pairs matching the given [predicate].
 * The returned map preserves the entry iteration order of the original map.
 * Returns a new map containing all key-value pairs not matching the given [predicate].
 * The returned map preserves the entry iteration order of the original map.
 */
    for (element in this) {
        if (!predicate(element)) {
            destination.put(element.key, element.value)
        }
    }
    return destination
}

/**
 * Creates a new read-only map by replacing or adding an entry to this map from a
given key-value [pair].
 */
    when (size) {
        0 -> emptyMap()
        1 -> toMap(mapCapacity(size))
        else -> toMutableMap()
    }
Pair<K, V>): Map<K, V> =
    if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first,
    pair.second) }

/**
 * Creates a new read-only map by replacing or adding entries to this map from a given
 * array of key-value [pairs].\n * The returned map preserves the entry iteration order of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.\n */
    if (this.isEmpty()) putAll(pairs) else putAll(pairs).toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().toList().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@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) { this.keys.removeAll(keys) }

/**
 * Removes all entries of the keys of which are contained in the given [keys] array from this mutable map.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) { this.keys.removeAll(keys) }

/**
 * Removes all entries from the keys of which are contained in the given [keys] sequence from this mutable map.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Sequence<K>) { this.keys.removeAll(keys) }

// do not expose for now
@PublishedApi
internal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {
    0 -> emptyMap()
    1 -> toSingletonMapOrSelf()
    else -> this
}

package kotlin.collections

import kotlin.contracts.*

internal object EmptySet : Set<Nothing>, Serializable {
    private const val serialVersionUID: Long = 3406603774387020532

    override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = "["]

    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false
    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()
    override fun iterator(): Iterator<Nothing> = EmptyIterator

    private fun readResolve(): Any = EmptySet
}

/**
 * Returns an empty read-only set. The returned set is serializable (JVM).
 * @sample samples.collections.Collections.Sets.emptyReadOnlySet
 */
public fun <T> emptySet(): Set<T> = EmptySet

/**
 * Returns a new read-only set with the given elements.
 * Elements of the set are iterated in the order they were specified.
 * @sample samples.collections.Collections.Sets.readOnlySet
 */
public fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()

/**
 * Returns an empty new [HashSet].
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> hashSetOf(): HashSet<T> = HashSet()

/** Returns a new [HashSet] with the given elements. */
public fun <T> hashSetOf(vararg elements: T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))

/**
 * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction] and returning a read-only set with the same elements.
 * The set passed as a receiver to the [builderAction] is valid only inside that function. Using it outside of the function produces an unspecified behavior.
 * Elements of the set are iterated in the order they were added by the [builderAction].
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")
@file:UseExperimental(kotlin.experimental.ExperimentalTypeInference::class)

package kotlin.collections

import kotlin.contracts.*

internal object EmptySet : Set<Nothing>, Serializable {
    private const val serialVersionUID: Long = 3406603774387020532

    override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = "["]

    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false
    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()
    override fun iterator(): Iterator<Nothing> = EmptyIterator

    private fun readResolve(): Any = EmptySet
}
*<@SinceKotlin("1.1")>@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E>
buildSet @BuilderInference builderAction: MutableSet<E>.() -&gt; Unit: Set<E> { 
   contract { 
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) } 
   return 
LinkedHashSet<E>().apply(builderAction) as* *E * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction] and returning a read-only set with the same elements. * E * The set passed as a receiver to the [builderAction] is valid only inside that function. * E * Using it outside of the function produces an unspecified behavior. * E * (capacity) is used to hint the expected number of elements added in the [builderAction]. * E * Elements of the set are iterated in the order they were added by the [builderAction]. * E * @throws IllegalArgumentException if the given [capacity] is negative. * E * @sample
samples.collections.Builders.sets.buildSetSample
*<@SinceKotlin("1.1")>@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E>
buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>.() -&gt; Unit): Set<E> { 
   contract { 
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) } 
   checkBuilderCapacity(capacity) 
   return 
LinkedHashSet<E>(mapCapacity(capacity)).apply(builderAction)
}

/** 
 * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction] and returning a read-only set with the same elements. * E * The set passed as a receiver to the [builderAction] is valid only inside that function. * E * Using it outside of the function produces an unspecified behavior. * E * (capacity) is used to hint the expected number of elements added in the [builderAction]. * E * Elements of the set are iterated in the order they were added by the [builderAction]. * E * @throws IllegalArgumentException if the given [capacity] is negative. * E * @sample
samples.collections.Builders.sets.buildSetSample
*/
@SinceKotlin("1.1")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E>
buildSet: Int, @BuilderInference builderAction: MutableSet<E>.() -&gt; Unit: Set<E> { 
   contract { 
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) } 
   checkBuilderCapacity(capacity) 
   return 
LinkedHashSet<E>(mapCapacity(capacity)).apply(builderAction)
}

// * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

*<@file:kotlin.jvm.JvmMultifileClass>@file:kotlin.jvm.JvmName("StringsKt")
@file:Suppress("PLATFORM_CLASS_MAPPED_TO_KOTLIN")

package kotlin.text

/** 
 * Parses the string as a signed [Byte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)

/** 
 * Parses the string as a signed [Byte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toByteOrNull(radix: Int): Byte? {
    val int = this.toIntOrNull(radix) ?: return null
    if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null
    return int.toByte()
}

/** 
 * Parses the string as a [Short] number and returns the result
 * or `null` if the string is not a valid representation of a number. 
 */
@SinceKotlin("1.1")
public fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)

/** 
 * Parses the string as a [Short] number and returns the result
 * or `null` if the string is not a valid representation of a number. 
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toShortOrNull(radix: Int): Short? {
    val int = this.toIntOrNull(radix) ?: return null
    if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null
    return int.toShort()
}

/** 
 * Parses the string as an [Int] number and returns the result
 * or `null` if the string is not a valid representation of a number. 
 */
@SinceKotlin("1.1")
public fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)

/** 
 * Parses the string as an [Int] number and returns the result
 * or `null` if the string is not a valid representation of a number. 
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.1")
public fun String.toIntOrNull(radix: Int): Int? {
    checkRadix(radix)
    val length = this.length
    if (length == 0) return null

    var result = 0
    var current: Char
    for (i in 0 until length) {
        current = this[i]
        if (current < '0') {  // Possible leading sign
            if (length == 1) return null  // single digit (possible sign) only, no digits after

            return null
        } else if (current == '-') {
            isNegative = true
        } else if (current == '+') {
            isNegative = false
        } else {
            result = result * 10 + current - '0'
        }
    }
    return result
}

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Fun `toLongOrNull` parses a string as a `Long` number and returns the result or `null` if the string is not a valid representation of a number. It *@SinceKotlin("1.1")*\public fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n
```kotlin
fun digitOf(c: Char, radix: Int): Int {  // digitOf will return the digit of the character c in the specified radix.
    val limit = 9 * radix
    return when {  // Parse the character c as a digit in radix, if possible.
        c < '0' -> return -1  // Non-digit characters, including leading sign characters, are not digits.
        c < '0' + radix -> c - '0'  // Leading digit is always valid.
        else -> c - '0'  // Other digits are valid, as long as they do not exceed the limit for the radix.
    }
}
```

The parsing logic is as follows:
- It checks the first character to determine if it is a sign (negative or positive).
- It checks if the number is within the valid range for the specified radix. If not, it returns `null`.
- It iterates over the characters, converting them into their corresponding digits and applying the radix to accumulate the result.
- It handles edge cases, such as the leading sign and the largest possible value for the radix.

The functions from `UnsignedKt` package provide utilities for working with unsigned numbers:

- `numberFormatError(input: String): Nothing = throw NumberFormatException("Invalid number format: '$input'")` is used for checking the validity of numeric strings.
- `uintDivide(v1: UInt, v2: UInt): UInt` and `ulongDivide(v1: ULong, v2: ULong): ULong` perform division with unsigned numbers, handling the overflow and underflow cases.
- `doubleToUInt(v: Double): UInt` and `doubleToULong(v: Double): ULong` convert decimal numbers to unsigned integer types, considering edge cases like NaN and infinity.

---

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---

The code is written in Kotlin and utilizes its experimental unsigned type features. It's a part of a broader set of utilities for working with signed and unsigned integers, providing a comprehensive set of functions for numeric operations.
v.toLong().toULong() // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not representable in Double, so don't handle them.
else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE

v.toString(base: 10) // String {un @PublishedApi

v.toLong().toULong()

// Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not representable in Double, so don't handle them.
else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL // Long.MAX_VALUE + 1 < v <
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v.toString(base: 10) // String {un @PublishedApi

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ULong.MAX_VALUE

v.toString(base: 10) // String {un @PublishedApi

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else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE

v.toString(base: 10) // String {un @PublishedApi

v.toLong().toULong()

// Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not representable in Double, so don't handle them.
else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE

v.toString(base: 10) // String {un @PublishedApi

v.toLong().toULong()
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```kotlin
public inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
    override fun iterator(): Iterator<T> = iterator()
}

/**
 * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.
 */
public fun <T> Iterator<T>.asSequence(): Sequence<T> = EmptySequence

/**
 * Returns this sequence if it's not `null` and the empty sequence otherwise.
 */
@SinceKotlin("1.3")
public inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()

/**
 * Returns a sequence that iterates through the elements either of this sequence or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.
 */
@SinceKotlin("1.3")
public fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {
    val iterator = this@ifEmpty.iterator()
    if (iterator.hasNext()) {
        yieldAll(iterator)
    } else {
        yieldAll(defaultValue())
    }
}

/**
 * Returns a pair of lists, where
 * *first* list is built from the first values of each pair from this sequence,
 * *second* list is built from the second values of each pair from this sequence.
 */
public fun <T, R> Sequence<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {
    val listT = ArrayList<T>()
    val listR = ArrayList<R>()
    for (pair in this) {
        listT.add(pair.first)
        listR.add(pair.second)
    }
    return listT to listR
}

/**
 * A sequence which returns the results of applying the given [transformer] function to the values in the underlying [sequence].
 */
internal class TransformingSequence<T, R>(private val sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {
    override fun iterator(): Iterator<R> = object : Iterator<R> {
        val iterator = sequence.iterator()
        override fun next(): R {
            return transformer(iterator.next())
        }
    }
}
```

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Iterator<T>, private val keySelector: (T) -> K : AbstractIterator<T>() {

    override fun computeNext() {
        while (source.hasNext()) {
            val next = source.next()
            val key = keySelector(next)
            if (observed.add(key)) {
                setNext(next)
                return
            }
        }
        done()
    }
}

private class GeneratorSequence<T : Any>(private val getInitialValue: () -> T?, private val getNextValue: (T) -> T?) : Sequence<T>() {
    override fun iterator(): Iterator<T> = object : Iterator<T> {
        var nextItem: T? = null
        var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue

        private fun calcNext() {
            nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!!)
            nextState = if (nextItem == null) 0 else 1
        }

        override fun next(): T {
            if (nextState < 0)
                calcNext()
            if (nextState == 0)
                throw NoSuchElementException()
            val result = nextItem as T
            // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue
            nextState = -1
            return result
        }

        override fun hasNext(): Boolean {
            if (nextState < 0)
                calcNext()
            return nextState == 1
        }
    }
}

/**
 * Returns a wrapper sequence that provides values of this sequence, but ensures it can be iterated only once time.
 * The operation is _intermediate_ and _stateless_.
 * Returns a wrapper sequence that provides values of this sequence, but ensures it can be iterated only once time.
 * The operation is _intermediate_ and _stateless_.
 * @see kotlin.sequences.sequence
 * @see kotlin.sequences.sequence
 * @sample samples.collections.Sequences.Building.generateSequence
 */
public fun <T> Sequence<T>.constrainOnce(): Sequence<T> {
    if (this is ConstrainedOnceSequence<T>)
        return this
    return ConstrainedOnceSequence<T>(this)
}

/**
 * Returns a sequence defined by the starting value [seed] and the function [nextFunction], which is invoked to calculate the next value based on the previous one on each iteration.
 * If [seed] is `null`, an empty sequence is produced.
 * The sequence can be iterated multiple times, each time starting with [seed].
 * The sequence can be iterated multiple times, each time starting with [seed].
 * The sequence can be iterated multiple times, each time starting with [seed].
 * @see kotlin.sequences.sequence
 * @see kotlin.sequences.sequence
 * @see kotlin.sequences.sequence
 * @sample samples.collections.Sequences.Building.generateSequenceWithSeed
 */
public fun <T : Any> generateSequence(seed: T?, nextFunction: (T) -> T?): Sequence<T> =
    if (seed == null)
        EmptySequence
    else
        GeneratorSequence({ seed }, nextFunction)

/**
 * Returns a sequence defined by the function [seedFunction], which is invoked to produce the starting value, and the [nextFunction], which is invoked to calculate the next value based on the previous one on each iteration.
 * If [seedFunction] returns `null`, an empty sequence is produced.
 * The sequence can be iterated multiple times.
 * @see kotlin.sequences.sequence
 * @see kotlin.sequences.sequence
 * @see kotlin.sequences.sequence
 * @sample samples.collections.Sequences.Building.generateSequenceWithLazySeed
 */
public fun <T : Any> generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =
    GeneratorSequence(seedFunction, nextFunction)

/**
 * Throws an [IllegalStateException] if the [value] is false.
 * @sample sample.samples.misc.Preconditions
 */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean): Unit {
    contract {
        returns() implies value
    }
    require(value) {
        "Failed requirement."
    }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.
 * @sample sample.samples.misc.Preconditions
 */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value
    }
    if (!value) {
        val message = lazyMessage()
        throw
    }
}

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samples.collections.Collections.Elements.elementAt

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun LongArray.elementAt(index: Int): Long {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun LongArray.asList(): List<Long> {
    return object : AbstractList<Long>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: Long): Boolean = this@asList.contains(element)
        override fun get(index: Int): Long {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: Long): Int {
            if ((element as Any?) !is Number) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: Long): Int {
            if ((element as Any?) !is Number) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

/**
 * Returns `true` if the two specified arrays are *deeply* equal to one another, \* i.e. contain the same number of the same elements in the same order. \* If two corresponding elements are nested arrays, they are also compared deeply. \* If any of arrays contains itself on any nesting level the behavior is undefined. \* The elements of other types are compared for equality with the [equals][Any.equals] function. \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n * @sample samples.collections.Collections.Elements.asList
 */
@SinceKotlin("1.1")
@library("arrayDeepEquals")
public actual infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List]. \* Nested arrays are treated as lists too. \* The elements of other types are compared for equality with the [equals][Any.equals] function. \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n * @sample samples.collections.Collections.Elements.asList
 */
public actual fun CharArray.asList(): List<Char> {
    return object : AbstractList<Char>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: Char): Boolean = this@asList.contains(element)
        override fun get(index: Int): Char {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: Char): Int {
            if ((element as Any?) !is Char) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: Char): Int {
            if ((element as Any?) !is Char) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}
*/
@SinceKotlin("1.1")
@library("arrayDeepHashCode")
public actual fun <T> Array<out T>.contentDeepHashCode(): Int {
    definedExternally
}

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 * The elements are compared for equality with the [equals][Any.equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@library("arrayDeepToString")
public actual fun <T> Array<out T>.contentDeepToString(): String {
    definedExternally
}

/**
 * Returns `true` if the two specified arrays are structurally equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 * The elements are compared for equality with the [equals][Any.equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@library("arrayEquals")
public actual infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean {
    definedExternally
}

/**
 * Returns `true` if the two specified arrays are structurally equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 * The elements are compared for equality with the [equals][Any.equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@library("arrayEquals")
public actual infix fun ByteArray.contentEquals(other: ByteArray): Boolean {
    definedExternally
}

/**
 * Returns `true` if the two specified arrays are structurally equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 * The elements are compared for equality with the [equals][Any.equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@library("arrayEquals")
public actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {
    definedExternally
}

/**
 * Returns `true` if the two specified arrays are structurally equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 * The elements are compared for equality with the [equals][Any.equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@library("arrayEquals")
public actual infix fun IntArray.contentEquals(other: IntArray): Boolean {
    definedExternally
}

/**
 * Returns `true` if the two specified arrays are structurally equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 * The elements are compared for equality with the [equals][Any.equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@library("arrayEquals")
public actual infix fun LongArray.contentEquals(other: LongArray): Boolean {
    definedExternally
}

/**
 * Returns `true` if the two specified arrays are structurally equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 * The elements are compared for equality with the [equals][Any.equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@library("arrayEquals")
public actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {
    definedExternally
}

/**
 * Returns `true` if the two specified arrays are structurally equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 * The elements are compared for equality with the [equals][Any.equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@library("arrayEquals")
public actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {
    definedExternally
}

/**
 * Returns `true` if the two specified arrays are structurally equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 * The elements are compared for equality with the [equals][Any.equals] function.
 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
 */
@SinceKotlin("1.1")
@library("arrayEquals")
public actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {
    definedExternally
}
* The elements are compared for equality with the [equals][Any.equals] function. 
* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. 

```kotlin
@SinceKotlin("1.1")
@library("arrayEquals")
public actual infix fun CharArray.contentEquals(other: CharArray): Boolean {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun <T> Array<out T>.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun ByteArray.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun ShortArray.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun IntArray.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun LongArray.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun FloatArray.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun DoubleArray.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun BooleanArray.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun CharArray.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun <T> Array<out T>.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun ByteArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun ShortArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun IntArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun LongArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun FloatArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun DoubleArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun BooleanArray.contentToString(): String {
    definedExternally
}
```
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun CharArray.contentToString(): String {
    return @param startIndex the beginning (inclusive) of the subrange so that it overlaps with the destination range.
    @param destinationOffset the position in the [destination] array to copy to, 0 by default.
    @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
    @throws IndexOutOfBoundsException or [IllegalArgumentConversionException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
    @return the [destination] array.
*\n* ** Copies this array or its subrange into the [destination] array and returns that array.
* ** The same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
* ** @param destination the array to copy to.
* ** @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* ** @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* ** @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* ** @returns
IndexOutOfBoundsException or [IllegalArgumentConversionException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* ** @throws
IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
* ** when that index is out of the [destination] array indices range.
* ** @return the [destination] array.
* \n* ** Copies this array or its subrange into the [destination] array and returns that array.
* ** The same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
* ** @param destination the array to copy to.
* ** @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* ** @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* ** @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* ** @returns
IndexOutOfBoundsException or [IllegalArgumentConversionException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* ** @throws
IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
* ** when that index is out of the [destination] array indices range.
* ** @return the [destination] array.
* \n* ** Copies this array or its subrange into the [destination] array and returns that array.
* ** The same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
* ** @param destination the array to copy to.
* ** @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* ** @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* ** @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* ** @returns
IndexOutOfBoundsException or [IllegalArgumentConversionException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* ** @throws
IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
* ** when that index is out of the [destination] array indices range.
* ** @return the [destination] array.
* \n* ** Copies this array or its subrange into the [destination] array and returns that array.
* ** The same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
* ** @param destination the array to copy to.
* ** @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* ** @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* ** @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* ** @returns
IndexOutOfBoundsException or [IllegalArgumentConversionException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* ** @throws
IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
* ** when that index is out of the [destination] array indices range.
* ** @return the [destination] array.
* \n* ** Copies this array or its subrange into the [destination] array and returns that array.
* ** The same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
* ** @param destination the array to copy to.
* ** @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* ** @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* ** @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* ** @returns
IndexOutOfBoundsException or [IllegalArgumentConversionException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
* ** @throws
IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
* ** when that index is out of the [destination] array indices range.
* ** @return the [destination] array.
doesn’t fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the
[destination] array indices range.\n * \n * @return the [destination] array.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): IntArray {
    arrayCopy(this.unsafeCast<Array<Int>>(),
destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.\n * It’s allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn’t fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): LongArray {
    arrayCopy(this.unsafeCast<Array<Long>>(),
destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.\n * It’s allowed to pass the same array in the [destination] array and even specify the subrange so that it overlaps with the destination range.\n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn’t fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): FloatArray {
    arrayCopy(this.unsafeCast<Array<Float>>(),
destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.\n * It’s allowed to pass the same array in the [destination] array and even specify the subrange so that it overlaps with the destination range.\n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn’t fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): DoubleArray {
    arrayCopy(this.unsafeCast<Array<Double>>(),
destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)
    return destination
}

It’s allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 4457
A public actual function `CharArray.copyOf()`: `CharArray { return withType("CharArray", this.asDynamic().slice(0)) }` returns a new array which is a copy of the original array, resized to the given `newSize`. The copy is either truncated or padded at the end with zero values if necessary. If `newSize` is less than the size of the original array, the copy array is truncated to the `newSize`. If `newSize` is greater than the size of the original array, the copy array is filled with zero values.

A public actual function `ByteArray.copyOf(newSize: Int): ByteArray { require(newSize >= 0) { "Invalid new array size: $newSize." } return fillFrom(this, ByteArray(newSize)) }` returns a new array which is a copy of the original array, resized to the given `newSize`. The copy is either truncated or padded at the end with zero values if necessary. If `newSize` is less than the size of the original array, the copy array is truncated to the `newSize`. If `newSize` is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

A public actual function `ShortArray.copyOf(newSize: Int): ShortArray { require(newSize >= 0) { "Invalid new array size: $newSize." } return fillFrom(this, ShortArray(newSize)) }` returns a new array which is a copy of the original array, resized to the given `newSize`. The copy is either truncated or padded at the end with zero values if necessary. If `newSize` is less than the size of the original array, the copy array is truncated to the `newSize`. If `newSize` is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

A public actual function `IntArray.copyOf(newSize: Int): IntArray { require(newSize >= 0) { "Invalid new array size: $newSize." } return fillFrom(this, IntArray(newSize)) }` returns a new array which is a copy of the original array, resized to the given `newSize`. The copy is either truncated or padded at the end with zero values if necessary. If `newSize` is less than the size of the original array, the copy array is truncated to the `newSize`. If `newSize` is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

A public actual function `LongArray.copyOf(newSize: Int): LongArray { require(newSize >= 0) { "Invalid new array size: $newSize." } return withType("LongArray", arrayCopyResize(this, newSize, 0L)) }` returns a new array which is a copy of the original array, resized to the given `newSize`. The copy is either truncated or padded at the end with zero values if necessary. If `newSize` is less than the size of the original array, the copy array is truncated to the `newSize`. If `newSize` is greater than the size of the original array, the copy array is filled with zero values.

A public actual function `FloatArray.copyOf(newSize: Int): FloatArray { require(newSize >= 0) { "Invalid new array size: $newSize." } return fillFrom(this, FloatArray(newSize)) }` returns a new array which is a copy of the original array, resized to the given `newSize`. The copy is either truncated or padded at the end with zero values if necessary. If `newSize` is less than the size of the original array, the copy array is truncated to the `newSize`. If `newSize` is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

A public actual function `DoubleArray.copyOf(newSize: Int): DoubleArray { require(newSize >= 0) { "Invalid new array size: $newSize." } return fillFrom(this, DoubleArray(newSize)) }` returns a new array which is a copy of the original array, resized to the given `newSize`. The copy is either truncated or padded at the end with 'false' values if necessary. If `newSize` is less than the size of the original array, the copy array is truncated to the `newSize`. If `newSize` is greater than the size of the original array, the extra elements in the copy array are filled with 'false' values.

A public actual function `BooleanArray.copyOf(newSize: Int): BooleanArray { require(newSize >= 0) { "Invalid new array size: $newSize." } return withType("BooleanArray", arrayCopyResize(this, newSize, false)) }` returns a new array which is a copy of the original array, resized to the given `newSize`. The copy is either truncated or padded at the end with 'false' values if necessary. If `newSize` is less than the size of the original array, the copy array is truncated to the `newSize`. If `newSize` is greater than the size of the original array, the extra elements in the copy array are filled with 'false' values.
padded at the end with null char (\u0000) values if necessary.\n* If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (\u0000) values.\n* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n*/
public actual fun CharArray.copyOf(newSize: Int): CharArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("CharArray", fillFrom(this, CharArray(newSize)))\n
* @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf
*/
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T?> {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return arrayCopyResize(this, newSize, null)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.\n* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n*/
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.\n* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n*/
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.\n* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n*/
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.\n* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n*/
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.\n* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n*/
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

/**
 * Returns a new array which is a copy of the specified range of the original array.\n* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n*/
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}
BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("BooleanArray",
        this.asDynamic().slice(fromIndex, toIndex))
}

/**
 * Returns a new array which is a copy of the specified range of the original array. * param fromIndex: the start of the range (inclusive), must be in 0..array.size * param toIndex: the end of the range (exclusive), must be in fromIndex..array.size * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 */
public actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("CharArray",
        this.asDynamic().slice(fromIndex, toIndex))
}

/**
 * Fills this array or its subrange with the specified [element] value. * param fromIndex: the start of the range (inclusive), 0 by default.
 * param toIndex: the end of the range (exclusive), size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * param fromIndex: the start of the range (inclusive), 0 by default.
 * param toIndex: the end of the range (exclusive), size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * param fromIndex: the start of the range (inclusive), 0 by default.
 * param toIndex: the end of the range (exclusive), size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * param fromIndex: the start of the range (inclusive), 0 by default.
 * param toIndex: the end of the range (exclusive), size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * param fromIndex: the start of the range (inclusive), 0 by default.
 * param toIndex: the end of the range (exclusive), size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}
fromIndex the start of the range (inclusive), 0 by default.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than

@throws IllegalArgumentException if [fromIndex] is greater than

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {
    return this.asDynamic().concat(arrayOf(element))
}

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun ByteArray.plus(element: Byte): ByteArray {
    return plus(byteArrayOf(element))
}

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun ShortArray.plus(element: Short): ShortArray {
    return plus(shortArrayOf(element))
}

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun IntArray.plus(element: Int): IntArray {
    return plus(intArrayOf(element))
}

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun LongArray.plus(element: Long): LongArray {
    return plus(longArrayOf(element))
}

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun FloatArray.plus(element: Float): FloatArray {
    return plus(floatArrayOf(element))
}

---

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containing all elements of the original array and then all elements of the given \([\text{elements}]\) array.

```kotlin
/*\@Suppress("NOTHING_TO_INLINE")\*/
public actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray { 
    return primitiveArrayConcat(this, elements)
}*/

/**
 * Returns an array containing all elements of the original array and then all elements of the given \([\text{elements}]\) array.

```kotlin
/*\@Suppress("NOTHING_TO_INLINE")\*/
public actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray { 
    return primitiveArrayConcat(this, elements)
}*/

/**
 * Returns an array containing all elements of the original array and then all elements of the given \([\text{elements}]\) array.

```kotlin
/*\@Suppress("NOTHING_TO_INLINE")\*/
public actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray { 
    return primitiveArrayConcat(this, elements)
}*/

/**
 * Returns an array containing all elements of the original array and then all elements of the given \([\text{elements}]\) array.

```kotlin
/*\@Suppress("NOTHING_TO_INLINE")\*/
public actual inline operator fun CharArray.plus(elements: CharArray): CharArray { 
    return primitiveArrayConcat(this, elements)
}*/

/**
 * Returns an array containing all elements of the original array and then the given \([\text{element}]\).

```kotlin
/*\@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\*/
public actual inline fun <T> Array<out T>.plusElement(element: T): Array<T> { 
    return this.asDynamic().concat(arrayOf(element))
}*/

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public actual fun IntArray.sort(): Unit { 
    definedExternally
}
asDynamic().sort(comparison) * Sorts the array in-place according to the order specified by the given comparison function.

### Inline Function Parameters

- `comparison`: A function that compares two elements of the array.

### Arrays

- `DoubleArray` sorts elements in place according to the given `comparison` function.
- `CharArray` sorts elements in place according to the given `comparison` function.
- `ByteArray`, `ShortArray`, `IntArray`, `LongArray`, `FloatArray`, and `DoubleArray` are also sorted in place using their respective types, ensuring type safety.

### Comparisons

This package provides functions for comparing values using different strategies.

- `compareValuesBy` allows for multiple comparison functions to be applied sequentially.
- `compareValuesByWithSingleSelector` applies a single comparison function.
- `compareValuesByWithComparator` applies a single comparison function along with a custom comparator.

### License

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```kotlin
/**
 * Compares two nullable [Comparable] values. Null is considered less than any value.
 * @suppress("NOTHING_TO_INLINE")
 * @sample samples.comparisons.Comparisons.compareValues
 */
public fun <T> compareValues(a: T?, b: T?): Int {
    if (a === b) return 0
    if (a == null) return -1
    if (b == null) return 1

    @Suppress("UNCHECKED_CAST")
    return (a as Comparable<Any>).compareTo(b)
}

/**
 * Creates a comparator using the sequence of functions to calculate a result of comparison.
 * The functions are called sequentially, receive the given values `a` and `b` and return
 * [Comparable] objects. As soon as the [Comparable] instances returned by a function for `'a` and `b` values do
 * not compare as equal, the result of that comparison is returned from the [Comparator].
 * @sample samples.comparisons.Comparisons.compareByWithSelectors
 */
public fun <T> compareBy(vararg selectors: (T) -> Comparable<*>)?: Comparator<T> {
    require(selectors.size > 0)
    return Comparator { a, b ->
        compareValuesByImpl(a, b, selectors)
    }
}

/**
 * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.
 * @sample samples.comparisons.Comparisons.compareByWithSingleSelector
 */
@kotlin.internal.InlineOnly
public inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>)?: Comparator<T> =
    Comparator { a, b ->
        compareValuesBy(a, b, selector)
    }

/**
 * Creates a descending comparator using the function to transform value to a [Comparable] instance for comparison.
 * @sample samples.comparisons.Comparisons.compareByDescendingWithSingleSelector
 */
@kotlin.internal.InlineOnly
public inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>)?: Comparator<T> =
    Comparator { a, b ->
        compareValuesBy(b, a, selector)
    }

/**
 * Creates a comparator comparing values after the primary comparator defined them equal.
 * It uses the function to transform value to a [Comparable] instance for comparison.
 * @sample samples.comparisons.Comparisons.thenBy
 */
@kotlin.internal.InlineOnly
public inline fun <T> Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>)?: Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenBy.compare(a, b)
        if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)
    }

/**
 * Creates a descending comparator comparing values after the primary comparator defined them equal.
 * It uses the function to transform value to a [Comparable] instance for comparison.
 * @sample samples.comparisons.Comparisons.thenByDescending
 */
@kotlin.internal.InlineOnly
public inline fun <T> Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>)?: Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenByDescending.compare(a, b)
        if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)
    }

/*
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 */
```
function to transform values and then compares them with the given \[\text{comparator}\].

```kotlin
* @sample samples.comparisons.Comparisons.thenByDescendingWithComparator
* \n* public
* inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenByDescending.compare(a, b)
        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)


/**
 * Creates a comparator using the primary comparator and function to calculate a result of comparison.
* @sample samples.comparisons.Comparisons.thenComparator
 */
@kotlin.internal.InlineOnly
public inline fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenComparator.compare(a, b)
        if (previousCompare != 0) previousCompare else comparison(a, b)
    }

/**
 * Combines this comparator and the given \[comparator]\ such that the latter is applied only \n when the former considered values equal.
* @sample samples.comparisons.Comparisons.then
 */
public infix fun <T> Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@then.compare(a, b)
        if (previousCompare != 0) previousCompare else comparator.compare(a, b)


private class ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {
    override fun compare(a:
InvocationKind.EXACTLY_ONCE

return block(this)

* Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.

T.takeIf(predicate: (T) -> Boolean): T?

contract { 
    callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    return if (predicate(this)) this else null
}

* Returns `this` value if `it` satisfies the given [predicate] or `null`, if it does.

An@kotlin.internal.InlineOnly@SinceKotlin("1.1")public inline fun<T> T.takeUnless(predicate: (T) -> Boolean): T?

contract { 
    callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    return if (!predicate(this)) this else null
}

* If values are equal, returns the first one.

An@SinceKotlin("1.1")public actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {
    return if (a >= b) a else b
}

* Returns the greater of two values.

An@kotlin.comparisons@kotlin.js*/

NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

* Returns the greater of three values.

An@SinceKotlin("1.1")public actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {
    return maxOf(a, maxOf(b, c))
}

* Returns the greater of two values.

An@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")public inline fun maxOf(a: Byte, b: Byte): Byte {
    return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

* Returns the greater of two values.

An@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")public inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
}

* Returns the greater of three values.

An@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")public inline fun maxOf(a: Short, b: Short): Short {
    return Math.max(a.toInt(), b.toInt()).unsafeCast<Short>()
}

* Returns the greater of two values.

An@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")public inline fun maxOf(a: Short, b: Short, c: Short): Short {
    return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()
}

* Returns the greater of three values.

An@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")public inline fun maxOf(a: Int, b: Int): Int {
    return Math.max(a, b)
}

* Returns the greater of two values.

An@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")public inline fun maxOf(a: Int, b: Int, c: Int): Int {
    return Math.max(a, maxOf(b, c))
}

* Returns the greater of three values.

An@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")public inline fun maxOf(a: Long, b: Long): Long {
    return maxOf(a, maxOf(b, c))
}

* Returns the greater of three values.

An@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")public inline fun maxOf(a: Long, b: Long, c: Long): Long {
    return maxOf(a, maxOf(b, c))
}

* Returns the greater of three values.

An@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")public inline fun maxOf(a: Float, b: Float): Float {
    return Math.max(a, b)
}

* Returns the greater of two values.

An@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")public inline fun maxOf(a: Float, b: Float, c: Float): Float {
    return Math.max(a, maxOf(b, c))
}

* Returns the greater of three values.
of three values.

```kotlin
/*
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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

package kotlin.collections

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns 1st *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component1(): T {
    return get(0)
}

/**
 * Returns 2nd *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component2(): T {
    return get(1)
}

/**
 * Returns 3rd *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 2.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component3(): T {
    return get(2)
}
```

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matching the predicate\n@Suppress("UNCHECKED_CAST")\n\n* @throws [NoSuchElementException] if no such element is found.*

/*public inline fun <T> List<T>.last(predicate: (T) -> Boolean): T {\n    \n    val iterator = this.listIterator(size)\n    \n    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n        if (predicate(element)) return element\n    }\n    \n    throw NoSuchElementException("List contains no element matching the predicate.")\n}*/

* Returns last index of [element], or -1 if the collection does not contain element./n*/

/*@kotlin.internal.OnlyInputTypes T> Iterables<T>.lastIndexOf(element: T): Int {\n    \n    if (this is List) return this.lastIndexOf(element)\n    var lastIndex = -1\n    var index = 0\n    \n    for (item in this) {\n        \n        checkIndexOverflow(index)\n        \n        if (element == item) lastIn = index\n        \n        index++\n    }\n    \n    return lastIndex\n}*/

* Returns the last element, or `null` if the collection is empty./n*/*public inline fun <T> Iterables<T>.lastOrDefault(): T? {\n    \n    when (this) {\n        is List -> return if (isEmpty()) null else this[size - 1]\n        else -> {\n            \n            val iterator = iterator()\n            if (!iterator.hasNext()) \n                return null\n        \n            var last = \n            \n            while (iterator.hasNext()) \n                last = iterator.next()\n            \n            return last\n        }\n    }\n}*/

* Returns the last element, or `null` if no such element was found./n*/*public inline fun <T> Iterables<T>.lastOrDefault(predicate: (T) -> Boolean): T? {\n    \n    if (this is List) return if (isEmpty()) null else this[size - 1]\n    else -> {\n        \n        val iterator = this.listIterator(size)\n        \n        while (iterator.hasPrevious()) {\n            val element = iterator.previous()\n            \n            if (predicate(element)) \n                return element\n            \n        }\n        \n        return null\n    }\n}*/

* Returns a random element from this collection.
* 
* @throws NoSuchElementException if this collection is empty.*

/*@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public fun <T> Random.random(): T {\n    \n    return random\n}*/

* Returns a random element from this collection using the specified source of randomness.
* 
* @throws NoSuchElementException if this collection is empty.*

/*@SinceKotlin("1.3")@ExperimentalStdlibApi
public fun <T> Random.random(random: Random): T {\n    \n    if (isEmpty()) throw NoSuchElementException("Collection is empty.")\n    return elementAt(random.nextInt(size))\n}*/

* Returns a random element from this collection, or `null` if this collection is empty.*

/*@SinceKotlin("1.3")@ExperimentalStdlibApi
public fun <T> Random.randomOrNull(): T? {\n    \n    if (isEmpty()) return null\n    return elementAt(random.nextInt(size))\n}*/

* Returns the single element, or throws an exception if the collection is empty or has more than one element.*

/*@public fun <T> Iterable<T>.single(): T {\n    \n    when (this) {\n        is List -> return this.single()\n        else -> {\n            \n            val iterator = iterator()\n            if (!iterator.hasNext()) throw
            \n            IllegalArgumentException("Collection has more than one element.")\n            \n            throw
            \n            NoSuchElementException("List is empty.")\n        }\n    }\n}*/

* Returns the single element, or throws an exception if the list is empty or has more than one element.*

/*@public fun <T> List<T>.single(): T {\n    \n    return when (size) {\n        0 -> throw
        \n        NoSuchElementException("List is empty.")\n    }\n}*/

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.*

/*@public inline fun <T> List<T>.single(predicate: (T) -> Boolean): T {\n    \n    var single: T? = null\n    \n    for (element in this) {\n        \n        if (predicate(element)) \n            single = element\n        \n    }\n    \n    return single\n}*/

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.*

/*@public inline fun <T> List<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    \n    val iterator = this.listIterator(size)\n    \n    while (iterator.hasPrevious()) {\n        \n        val element = iterator.previous()\n        \n        if (predicate(element)) return element\n    }\n    \n    return null\n}*/

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.*
IllegalArgument.Refresh("Collection contains more than one matching element.")

found = true
} | n | n | n if (!found) throw NoSuchElement.Refresh("Collection contains no element matching the predicate.")

@Suppress("UNCHECKED_CAST")

return single as T

* Returns single element, or null if the collection is empty or has more than one element.

public fun <T> Iterables.singleOrNull(): T? {
when (this) {
    is List -> return if (size == 1) this[0] else null
    else ->
        val iterator = iterator()
        if (iterator.hasNext())
            return null
        return single
    }
}

val next = iterator.next()
if (iterator.hasNext())
    return single

* Returns single element, or null if the list is empty or has more than one element.

public fun <T> List<T>.singleOrNull(): T? {
    return if (size == 1) this[0] else null
}

* Returns the single element matching the given [predicate], or not found if more than one element was found.

public inline fun <reified R> Iterable<R>.filterIsInstance(): List<R> {
    return
}

/**
 * Appends all elements that are instances of specified type
 */
public inline fun <reified R> Iterable<R>.filterIsInstanceTo(destination: ArrayList<R>())
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgument.Refresh if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Filtering.drop
 */
public fun <T> List<T>.drop(n: Int):

 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.takeLast(n: Int):

 * Returns a list containing only elements matching the given [predicate].
 * @throws IllegalArgument.Refresh if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropWhile(predicate: (T) -> Boolean):

 * Returns a list containing only elements matching the given [predicate].
 * @throws IllegalArgument.Refresh if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropLast(n: Int):

 * Returns a list containing only elements matching the given [predicate].
 * @throws IllegalArgument.Refresh if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropFirst(n: Int):

 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean):

 * Returns a list containing only elements matching the given [predicate].
 * @throws IllegalArgument.Refresh if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropFirstOrDefault(predicate: (T) -> Boolean):

 * Returns a list containing only elements matching the given [predicate].
 * @throws IllegalArgument.Refresh if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropLastFirst(predicate: (T) -> Boolean):

 * Returns a list containing all elements except first [n] elements that satisfy the given [predicate].
 * @throws IllegalArgument.Refresh if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropFirstWhile(predicate: (T) -> Boolean):

 * Returns a list containing all elements except last [n] elements that satisfy the given [predicate].
 * @throws IllegalArgument.Refresh if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropLastFirstWhile(predicate: (T) -> Boolean):

 * Returns a list containing only elements matching the given [predicate].
 * @throws IllegalArgument.Refresh if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropFirstLastWhile(predicate: (T) -> Boolean):

 * Returns a list containing all elements except last [n] elements that satisfy the given [predicate].
 * @throws IllegalArgument.Refresh if [n] is negative.
 *
 * @param [prefix] string prefix
 *
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropLastFirstLastWhile(predicate: (T) -> Boolean):
parameter R to the given [destination].

```kotlin
// Returns a list containing all elements not matching the
given [predicate].
public inline fun <reified R, C : MutableCollection<R>>
Iterable<R?>.filterInstanceTo(destination: C): C {
    return destination
}

// Returns a list containing all elements not null.
public inline fun C.<T>.filterNotNull(): List<T> {
    return toList()
}

// Returns a list containing all elements not null.
public inline fun <T> List<T>.filterNotNull(): List<T> {
    return toList()
}
```

These functions are part of a collection of tools designed to manipulate lists and collections in Kotlin. The `filterInstanceTo` function filters elements of a specified type based on a given predicate. Similarly, `filterNotNull` and `filterNotNull` return lists containing elements that are not null.

The provided example showcases how these functions can be used to filter collections, handling both elements and collections seamlessly.

---

**Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)**

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equal elements preserve their order relative to each other after sorting.

```kotlin
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)  4475

/**
 * Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <T, R : Comparable<R>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {
    if (size > 1)
        sortWith(compareByDescending(selector))
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {
    sortWith(reverseOrder())
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <T, R : Comparable<R>> MutableList<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareByDescending(selector))
}

/**
 * Returns an array of Boolean containing all of the elements of this collection.
 */
public fun Collection<Boolean>.toBooleanArray(): BooleanArray {
    val result = BooleanArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Byte containing all of the elements of this collection.
 */
public fun Collection<Byte>.toByteArray(): ByteArray {
    val result = ByteArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Char containing all of the elements of this collection.
 */
public fun Collection<Char>.toCharArray(): CharArray {
    val result = CharArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Double containing all of the elements of this collection.
 */
public fun Collection<Double>.toDoubleArray(): DoubleArray {
    val result = DoubleArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Float containing all of the elements of this collection.
 */
public fun Collection<Float>.toFloatArray(): FloatArray {
    val result = FloatArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Int containing all of the elements of this collection.
 */
public fun Collection<Int>.toIntArray(): IntArray {
    val result = IntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Long containing all of the elements of this collection.
 */
public fun Collection<Long>.toLongArray(): LongArray {
    val result = LongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Short containing all of the elements of this collection.
 */
public fun Collection<Short>.toShortArray(): ShortArray {
    val result = ShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
Collection<Short>.toShortArray(): ShortArray {
    val result = ShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given collection.
 * If any of two pairs would have the same key the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original collection.
 */
public inline fun <T> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

/**
 * Returns a [Map] containing key-value pairs provided by [keySelector] function applied to each element of the given collection.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original collection.
 */
public inline fun <T, K, V> Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)
}

/**
 * Returns a [Map] containing key-value pairs provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given collection.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original collection.
 */
public inline fun <T, K, V> Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given collection.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original collection.
 */
public inline fun <T, K, M : MutableMap<in K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs.
 * where key is provided by the [keySelector] function and value is provided by the [valueSelector] function applied to elements of the given collection.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original collection.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> Iterable<K, V>.associateByTo(destination: M, keySelector: (K) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Returns a [Map] where keys are elements from the given collection and values are produced by the [valueSelector] function applied to each element of the given collection.
 * If any two elements are equal, the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original collection.
 */
@SinceKotlin("1.3")
public inline fun <K, V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {
    val result = LinkedHashMap<K, V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}
function applied to that key.

If any two elements are equal, the last one overwrites the former value in the
map.

@SinceKotlin("1.3")
public inline fun <K, V, M : MutableMap<in K, in V>>
Iterable<in K>.associateWithTo(destination: M, valueSelector: (K) -> V): M { for (element in this) {
    valueSelector(element).let {
        destination.put(element, it)
    }
    return destination
}

/*
 * Returns a [HashSet] of all elements.
 */
public fun <T> Iterable<T>.toHashSet(): HashSet<T> { return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <T, C : MutableCollection<in T>>
Iterable<T>.toCollection(destination: C): C { for (item in this) {
    destination.add(item)
}
    return destination
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original collection.
 */
public fun <T> Iterable<T>.toList(): List<T> {
    if (this is Collection) {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(if (this is List) get(0) else iterator().next())
            else -> this.toMutableList().optimizeReadOnlyList()
        }
    }
    return this.toMutableList().optimizeReadOnlyList().toMutableList().getOrPut(keySelector) {
        ArrayList<T>()
    } [valueSelector(element)]
    return toCollection(LinkedHashSet<T>(mapCapacity(size))).optimizeReadOnlySet()
}

/**
 * Returns a [List] containing all elements.
 */
public fun <T> Iterable<T>.toList(): List<T> {
    return toCollection(ArrayList<T>())
}

/**
 * Groups elements by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.
 */
public fun <T, K, M : MutableMap<in K, MutableList<T>>>
Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M { for (element in this) {
    val key = keySelector(element)
    val list = destination.getOrPut(key) {
        ArrayList<T>()
    } add(element)
}
    return destination
}

/**
 * Groups elements of the original collection by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 */
public fun <T, K, V, M : MutableMap<in K, MutableList<T>>>
Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M { for (element in this) {
    val key = keySelector(element)
    val list = destination.getOrPut(key) {
        ArrayList<T>()
    } add(element)
}
    return destination
}

/**
 * Groups elements of the original collection by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 */
public fun <T, K, V, M : MutableMap<in K, MutableList<T>>>
Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M { for (element in this) {
    val key = keySelector(element)
    val list = destination.getOrPut(key) {
        ArrayList<T>()
    } add(element)
}
    return destination
}
list of corresponding values.

`@return` The `[destination]` map.

`@param` `transform` function that takes the index of an element and the element itself.

`@returns` A list containing only the non-null results of applying the given `transform` function to each element.

`@param` `transform` function that takes the index of an element and the element itself.

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`@returns` A list containing only the non-null results of applying the given `transform` function to each element.
are in the same order as they were in the source collection.

```kotlin
/*
 * Returns a list containing only elements from the
 * given collection
 * having distinct keys returned by the given [selector] function.
 * The elements in the
 * resulting list are in the same order as they were in the source collection.
 */
return this.toMutableSet().toList()
```

```kotlin
/**
 * Returns a list containing only elements from the
 * given collection
 * having distinct keys returned by the given [selector] function.
 * The elements in the
 * resulting list are in the same order as they were in the source collection.
 * @sample
 * samples.collections.Collections.Transformations.distinctAndDistinctBy
 */
public fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {
    val set = this.toMutableSet().toCollection(LinkedHashSet<T>())
    val list = ArrayList<T>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}
```

```kotlin
/**
 * Returns a mutable set containing all elements that are contained by this collection and not contained by
 * the specified collection.
 * The returned set preserves the element iteration order of the original
 * collection.
 */
public fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {
    return when (this) {
        is Collection<T> -> LinkedHashSet(this)
        else -> toCollection(LinkedHashSet<T>())
    }
}
```

```kotlin
/**
 * Returns a set containing all distinct elements from both collections
 * that are contained in
 * both collections use [intersect].
 */
public infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}
```

```kotlin
/**
 * Returns a mutable set containing all elements that are contained by this collection and not contained by
 * the specified collection.
 * The returned set preserves the element iteration order of the original
 * collection.
 */
public fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}
```

```kotlin
/**
 * Returns `true` if all elements match the
 * given [predicate].
 * @sample samples.collections.Collections.Aggregates.all
 */
public inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {
    if (this is Collection && isEmpty()) return true
    for (element in this) if (!predicate(element)) return false
    return true
}
```

```kotlin
/**
 * Returns `true` if at least one element matches the given [predicate].
 * @sample
 * samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun <T> Iterable<T>.any(predicate: (T) -> Boolean): Boolean {
    if (this is Collection && isEmpty()) return false
    for (element in this) if (predicate(element)) return true
    return false
}
```

```kotlin
/**
 * Returns the number of elements in
 * this collection.
 */
public fun <T> Iterable<T>.count(): Int {
    if (this is Collection) return size
    var count = 0
    for (element in this) checkCountOverflow(++count)
    return count
}
```

```kotlin
/**
 * Returns the number of elements matching the given [predicate].
 */
public inline fun <T> Iterable<T>.count(predicate: (T) -> Boolean): Int {
    if (this is Collection && isEmpty()) return 0
    var count = 0
    for (element in this) checkCountOverflow(++count)
    return count
}
```

```kotlin
/**
 * Accumulates value starting with
 * and applying [operation] from left to right to current accumulator value and each element.
 * Returns the number of elements in this collection.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and
 * calculates the next accumulator value.
 */
public inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var index = 0
    var accumulator = initial
    var size = this.size
    for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)
    return accumulator
}
```

```kotlin
/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original collection.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and
 * calculates the next accumulator value.
 */
public inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var index = 0
    var accumulator = initial
    var size = this.size
    for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)
    return accumulator
}
```
null
 var min = iterator.next() while (iterator.hasNext()) { 
 val e = iterator.next() if (min > e) min = e 
 } 
 return min
}

minBy

var min = iterator.next() while (iterator.hasNext()) {
    val e = iterator.next()
    if (min > e) min = e
}

return min
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or 'null' if there are no elements.
 */

public fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Performs the given [action] on each element and returns the collection itself afterwards.
 */
@SinceKotlin("1.1")
public inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {
    return apply { for (element in this) action(element) }
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to each element and current accumulator value.
 */
public inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from right to left
 * to each element and current accumulator value.
 */
public inline fun <S, T : S> List<T>.reduceRight(operation: (T, acc: S) -> S): S {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        throw UnsupportedOperationException("Empty list can't be reduced.")
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        accumulator = operation(iterator.previous(), accumulator)
    }
    return accumulator
}

/**
 * Performs the given [action] on each element and returns the collection itself afterwards.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return null
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}
Accumulates value starting with last element and applying [operation] from right to left and current accumulator value. Returns null if the list is empty.

```kotlin
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        throw UnsupportedOperationException("Empty list can't be reduced.")
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        val index = iterator.previousIndex()
        accumulator = operation(index, iterator.previous(), accumulator)
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun <S, T : S> List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        return null
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        accumulator = operation(iterator.previous(), accumulator)
    }
    return accumulator
}
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

```kotlin
public inline fun <T, R> Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {
    val estimatedSize = collectionSizeOrDefault(9)
    if (estimatedSize == 0) return listOf(initial)
    val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original collection and current accumulator value that starts with [initial] value.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <T, R> Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
    val estimatedSize = collectionSizeOrDefault(9)
    if (estimatedSize == 0) return listOf(initial)
    val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }
    var index = 0
    var accumulator = initial
    for (element in this) {
        accumulator = operation(index++, accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this collection.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Iterable<T>.scanReduce(operation: (acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    var accumulator: S = iterator.next()
    val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
        result.add(accumulator)
    }
    return result
}
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original collection and current accumulator value that starts with the first element of this collection.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Iterable<T>.scanReduceIndexed(operation: (acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    var accumulator: S = iterator.next()
    val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
        result.add(accumulator)
    }
    return result
}
```
index of an element, current accumulator value
and the element itself, and calculates the next accumulator
value. *

@sample samples.collections.Collections.Aggregates.scanReduce

Iterable<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    var accumulator: S = iterator.next()
    var result = ArrayList<S>(collectionSizeOrDefault(10)).apply {
        add(accumulator)
    }
    var index = 1
    while (iterator.hasNext()) {
        accumulator = operation(index++, accumulator, iterator.next())
        result.add(accumulator)
    }
    return result
}

/**
 * Returns the sum of all values produced by [selector]
 * function applied to each element in the collection.
 * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S>

Iterable<T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the
 * collection.
 */
public inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Splits this collection into a list of
 * elements, throwing an [IllegalArgument] exception if there are
 * any null elements.
 */
public fun <T : Any> Iterable<T>.requireNoNulls(): Iterable<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as Iterable<T>
}

/**
 * Splits this collection into a list of
 * elements, throwing an [IllegalArgument] exception if there are any null elements.
 */
public fun <T : Any> List<T>.requireNoNulls(): List<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as List<T>
}

/**
 * Splits this collection into several lists each not exceeding the given [size]
 * and applies the given [transform]
 * function to each.
 * @return list of results of the [transform] applied to each list.
 * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
 */
@SinceKotlin("1.2")
public fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

/**
 * Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.
 */
public operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {
    val other = elements.convertToSetForSetOperationWith(this)
    if (other.isEmpty())
        return this.toList()
    return

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}
by on each step, by default `false` which means partial windows won't be preserved

```kotlin
@SinceKotlin("1.2")
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
        val result = ArrayList<List<T>>(resultCapacity)
        var index = 0
        while (index in 0 until thisSize) {
            val windowSize = size.coerceAtMost(thisSize - index)
            if (windowSize < size && !partialWindows) break
            result.add(List(windowSize) { this[it + index] })
            index += step
        }
        return result
    }
    val result = ArrayList<List<T>>()
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {
        result.add(it)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.2")
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
        val result = ArrayList<R>(resultCapacity)
        val window = MovingSubList(this)
        var index = 0
        while (index in 0 until thisSize) {
            val windowSize = size.coerceAtMost(thisSize - index)
            if (!partialWindows && windowSize < size) break
            window.move(index, index + windowSize)
            result.add(transform(window))
            index += step
        }
        return result
    }
    val result = ArrayList<R>()
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {
        result.add(transform(it))
    }
    return result
}
```

```kotlin
@SinceKotlin("1.2")
public infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
@SinceKotlin("1.2")
public inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {
    val first = iterator()
    val second = other.iterator()
    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))
    while (first.hasNext() && second.hasNext()) {
        list.add(transform(first.next(), second.next()))
    }
    return list
}
```
list.add(transform(first.next(), second.next()))
    }
    return list
}

/**
 * Returns a list of pairs of each two adjacent elements in this collection.
 * The returned list is empty if this collection contains less than two elements.
 */
@sample samples.collections.Collections.Transformations.zipWithNext
public fun <T> List<Pair<T, T>> zipWithNext(transform: (a: T, b: T) -> T): List<Pair<T, T>> {
    return zipWithNext(transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each pair of two adjacent elements in this collection. The returned list is empty
 * if this collection contains less than two elements.
 */
@sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
public fun <T, R> List<R> zipWithNextToFindDeltas(transform: (a: T, b: T) -> R): List<R> {
    return zipWithNextToFindDeltas(transform)
}

/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit],
 * in which case only the first [limit] elements will be appended, followed by the
 * [truncated] string (which defaults to "..."").
 */
public fun <T, A : Appendable> Iterable<T>.joinTo(buffer: A, separator: CharSequence, prefix: CharSequence, postfix: CharSequence, limit: Int, truncated: CharSequence): A {
    buffer.append(prefix)
    for (element in this) {
        if (limit >= 0 && count <= limit) {
            buffer.appendElement(element)
        } else break
    }
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a [Sequence] instance that wraps the original collection returning
 * its elements when being iterated.
 */
public fun <T> Iterable<T>.asSequence(): Sequence<T> {
    return Sequence { this.iterator() }
}

/**
 * Returns an average value of elements in the collection.
 */
public fun <T> List<T>.average(): Double {
    var sum = 0.0
    var count = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
```kotlin
sum += element
    checkCountOverflow(++count)
}
return if (count == 0) Double.NaN else sum / count

/**
 * Returns an average value of elements in the collection.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Iterable<Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the collection.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Iterable<Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Iterable<Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Iterable<Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Iterable<Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Iterable<Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}
```

---

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)  4487

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order relative to each other after sorting.

```kotlin
public actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {
    collectionsSort(this, naturalOrder())
}

/**
 * Sorts elements in the list in-place according to the order
 * specified with [comparator].
 */
public actual fun <T> MutableList<T>.sortWith(comparator: Comparator<T>) :
```

```kotlin
private fun <T> collectionsSort(list: MutableList<T>,
    comparator: Comparator<T>) {
    if (list.size <= 1) return

    val array = copyToArray(list)
    sortArrayWith(array, comparator)

    for (i in 0 until array.size) {
        list[i] = array[i]
    }
}

internal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {
    return arrayOfNulls<Any>(size).unsafeCast<Array<T>>()
}

@SinceKotlin("1.3")
@PublishedApi
@JsName("arrayCopy")
internal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>,
    destinationOffset: Int, startIndex: Int, endIndex: Int) {
    AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)
    val rangeSize = endIndex - startIndex
    AbstractList.checkRangeIndexes(destinationOffset, destinationOffset +
        rangeSize, destination.size)
    if (js("ArrayBuffer").isView(destination) &&
        js("ArrayBuffer").isView(source)) {
        val subrange = source.asDynamic().subarray(startIndex, endIndex)
        destination.asDynamic().set(subrange, destinationOffset)
    } else {
        if (source !== destination ||
            destinationOffset <= startIndex) {
            for (index in 0 until rangeSize) {
                destination[destinationOffset + index] = source[startIndex + index]
            }
        } else {
            for (index in rangeSize - 1 downTo 0) {
                destination[destinationOffset + index] = source[startIndex + index]
            }
        }
    }
}
```

```kotlin
/**
 * JS map and set implementations do not make use of
 * capacities or load factors.
 */
@PublishedApi
internal actual fun mapCapacity(expectedSize: Int) =

/**
 * Checks a collection builder function capacity argument in JS no validation is made in
 * Map/Set constructor yet.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@PublishedApi
internal actual fun checkBuilderCapacity(capacity: Int) {
    require(capacity >= 0) { "capacity must be non-negative." }
}
```

```kotlin
/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

package
kotlin.collections

/**
 * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
 * loop.
 */
@kotlin.internal.InlineOnly
public inline operator
fun <T> Iterator<T>.iterator(): Iterator<T> = this

/**
 * Returns an [Iterator] that wraps each element produced
 * by the original iterator
 * into an [IndexedValue] containing the index of that element and the element itself.
 */
public fun <T> Iterator<T>.withIndex():
    Iterator<IndexedValue<T>> = IndexingIterator(this)

/**
 * Performs the given [operation] on each element of
 * this [Iterator].
 */
public inline fun <T>
    Iterator<T>.forEach(operation: (T) -> Unit): Unit {
    for (element in this) operation(element)
}

/**
 * Iterator transforming original `iterator` into iterator of [IndexedValue], counting index from zero.
 * `#nun@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

package kotlin.collections

/**
 * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
 * loop.
 */
@sample samples.collections.Iterators.iterator
@sample kotlin.internal.InlineOnly

/**
 * Returns an [Iterator] that wraps each element produced
 * by the original iterator
 * into an [IndexedValue] containing the index of that element and the element itself.
 */
@sample samples.collections.Iterators.withIndex
@sample public inline

/**
 * Performs the given [operation] on each element of
 * this [Iterator].
 */
@sample samples.collections.Iterators.forEach
@sample public inline

Iterator<T>.operation: (T) -> Unit: Unit {
    for (element in this) operation(element)
}
```
that can be found in the license/LICENSE.txt file.

*An@file:kotlin.jvm.JvmMultifileClass@file:kotlin.jvm.JvmName("ComparisonsKt")@unpackage kotlin.comparisons@un@/ NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt


*An@SinceKotlin("1.1.")@npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T): T

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Byte, b: Byte): Byte

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun <T : Comparable<T>> maxOf(a: Short, b: Short): Short

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Int, b: Int): Int

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Long, b: Long): Long

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Float, b: Float): Float

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Double, b: Double): Double

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Short, b: Short, c: Short): Short

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Int, b: Int, c: Int): Int

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Long, b: Long, c: Long): Long

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Float, b: Float, c: Float): Float

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun maxOf(a: Double, b: Double, c: Double): Double

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Byte, b: Byte): Byte

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Short, b: Short): Short

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Int, b: Int): Int

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*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte): Byte

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Short, b: Short, c: Short): Short

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Int, b: Int, c: Int): Int

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*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Double, b: Double, c: Double): Double

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte, comparator: Comparator<in T>): T

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Short, b: Short, comparator: Comparator<in T>): Short

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Int, b: Int, comparator: Comparator<in T>): Int

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Long, b: Long, comparator: Comparator<in T>): Long

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Float, b: Float, comparator: Comparator<in T>): Float

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Double, b: Double, comparator: Comparator<in T>): Double

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte, comparator: Comparator<in T>): Byte

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Short, b: Short, comparator: Comparator<in T>): Short

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Int, b: Int, comparator: Comparator<in T>): Int

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Long, b: Long, comparator: Comparator<in T>): Long

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Float, b: Float, comparator: Comparator<in T>): Float

*An@SinceKotlin("1.1.")@n@kotlin.internal.InlineOnly@npublic expect inline fun minOf(a: Double, b: Double, comparator: Comparator<in T>): Double
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Short, b: Short, c: Short): Short

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Int, b: Int, c: Int): Int

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Long, b: Long, c: Long): Long

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Float, b: Float, c: Float): Float

/**
 * Returns the smaller of three values according to the order specified by the given [comparator].
 */
@SinceKotlin("1.1")
public fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {
    return minOf(a, minOf(b, c, comparator), comparator)
}

/**
 * Returns the smaller of two values according to the order specified by the given [comparator].
 * If values are equal, returns the first one.
 */
@SinceKotlin("1.1")
public fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {
    return if (comparator.compare(a, b) <= 0) a else b
}

public fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {
    if (isEmpty())
        return emptyList()
    val iterator = entrySet().iterator()
    if (!iterator.hasNext())
        return emptyList()
    val first = iterator.next()
    if (!iterator.hasNext())
        return listOf(first.toPair())
    val result = ArrayList<Pair<K, V>>(size)
    result.add(first.toPair())
    do {
        result.add(iterator.next().toPair())
    } while (iterator.hasNext())
    return result
}

public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {
    for (element in this)
        destination.add(transform(element))
    return destination
}

public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(), transform)
}

public inline fun <K, V, R : Any, C : MutableCollection<in R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {
    for (element in this)
        transform(element)?.let { destination.add(it) } //
}

public inline fun <K, V, R> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

public inline fun <K, V, R> Map<out K, V>.mapNullEmpty(transform: (Map.Entry<K, V>) -> R?): List<R> {
    return mapNullEmptyTo(ArrayList<R>(), transform)
}

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/**
 * Returns `true` if at least one entry matches the given [predicate].
 */
    return entries.minWith(comparator)
}

/**
 * Returns the number of entries matching the given [predicate].
 */
public fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {
    if (isEmpty()) return 0
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Performs the given [action] on each entry and
 * returns the map itself afterwards.
 */
@SinceKotlin("1.1")
public inline fun <K, V, M : Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {
    return apply { for (element in this) action(element) }
}

/**
 * Returns an element at the given 
 * index or throws an 
 * [IndexOutOfBoundsException] if the
 * index is out of bounds of this sequence.
 */
public fun <T> Sequence<T>.elementAt(index: Int): T {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("Sequence doesn't contain element at index") }
}

/**
 * Returns the first entry yielding the largest value of the given function or 'null' if there are no entries.
 */
public operator fun <T> Sequence<T>.contains(element: T): Boolean {
    return indexOf(element) >= 0
}

/**
 * Creates an [Iterable] instance that wraps the original map returning its entries when being iterated.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {
    return entries
}

/**
 * Creates a [Sequence] instance that wraps the original map returning its entries
 * when being iterated.
 */
public fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {
    return entries.asSequence()
}

/*
 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
 * contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 * LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SequencesKt")

package kotlin.sequences

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.random.*
index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T>
Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n if (index < 0)\n
return
defaultValue(index)\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n
val element
= iterator.next()\n
if (index == count++)\n
return element\n }\n return
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T>
Sequence<T>.elementAtOrNull(index: Int): T? {\n if (index < 0)\n
return null\n val iterator = iterator()\n
var count = 0\n while (iterator.hasNext()) {\n
val element = iterator.next()\n
if (index == count++)\n
return element\n }\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null`
if no such element was found.\n *\n * The operation is _terminal_.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is
_terminal_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) ->
Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T>
Sequence<T>.first(): T {\n val iterator = iterator()\n if (!iterator.hasNext())\n
throw
NoSuchElementException(\"Sequence is empty.\")\n return iterator.next()\n}\n\n/**\n * Returns the first element
matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The
operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n for
(element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Sequence contains no
element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the sequence is empty.\n *\n *
The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.firstOrNull(): T? {\n val iterator = iterator()\n if
(!iterator.hasNext())\n
return null\n return iterator.next()\n}\n\n/**\n * Returns the first element matching the
given [predicate], or `null` if element was not found.\n *\n * The operation is _terminal_.\n */\npublic inline fun
<T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in this) if (predicate(element))
return element\n return null\n}\n\n/**\n * Returns first index of [element], or -1 if the sequence does not contain
element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T>
Sequence<T>.indexOf(element: T): Int {\n var index = 0\n for (item in this) {\n
checkIndexOverflow(index)\n
if (element == item)\n
return index\n
index++\n }\n return 1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the sequence does not
contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T>
Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n for (item in this) {\n
checkIndexOverflow(index)\n
if (predicate(item))\n
return index\n
index++\n }\n return 1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not
contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T>
Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n var lastIndex = -1\n var index = 0\n for (item in
this) {\n
checkIndexOverflow(index)\n
if (predicate(item))\n
lastIndex = index\n
index++\n
}\n return lastIndex\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the
sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.last(): T {\n val
iterator = iterator()\n if (!iterator.hasNext())\n
throw NoSuchElementException(\"Sequence is empty.\")\n
var last = iterator.next()\n while (iterator.hasNext())\n
last = iterator.next()\n return last\n}\n\n/**\n *
Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.last(predicate: (T) > Boolean): T {\n var last: T? = null\n var found = false\n for (element in this) {\n
if (predicate(element))
{\n
last = element\n
found = true\n
}\n }\n if (!found) throw

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NoSuchElementException("Sequence contains no element matching the predicate.")

@Suppress("UNCHECKED_CAST")
    return last as T
}

/**
 * Returns last index of [element], or -1 if the sequence does not contain element.
 * The operation is _terminal_.
 */
@kotlin.internal.OnlyInputTypes public fun
@Suppress("UNCHECKED_CAST")
    return lastIndex

/**
 * Returns last index of [element], or 'null' if the sequence is empty.
 * The operation is _terminal_.
 */
@kotlin.internal.OnlyInputTypes public fun <T> Sequence<T>.lastIndexOf(element: T): Int {
    var lastIndex = -1
    var index = 0
    for (item in this) {
        if (element == item) {
            lastIndex = index
            index++
        }
    }
    return lastIndex
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 * The operation is _terminal_.
 */
@kotlin.internal.OnlyInputTypes public fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    var last: T? = null
    for (element in this) {
        if (predicate(element)) {
            last = element
        }
    }
    return last
}

/**
 * Returns the single element, or throws an exception if the sequence is empty or has more than one element.
 * The operation is _terminal_.
 */
@kotlin.internal.OnlyInputTypes public fun <T> Sequence<T>.single(): T {
    val iterator = iterator()
    if (!iterator.hasNext())
        throw NoSuchElementException("Sequence is empty.")
    val single = iterator.next()
    if (iterator.hasNext())
        throw IllegalArgumentException("Sequence has more than one element.")
    return single
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 * The operation is _terminal_.
 */
@kotlin.internal.OnlyInputTypes public fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Sequence contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as T
}

/**
 * Returns a sequence containing all elements except first [n] elements.
 * The operation is _intermediate_ and _stateless_.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@kotlin.internal.OnlyInputTypes public fun <T> Sequence<T>.drop(n: Int): Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> this
        this is DropTakeSequence -> this.drop(n)
        else -> DropSequence(this, n)
    }
}

/**
 * Returns a sequence containing all elements except first elements that satisfy the given [predicate].
 * The operation is _intermediate_ and _stateless_.
 */
@kotlin.internal.OnlyInputTypes public fun <T> Sequence<T>.dropWhile(predicate: (T) -> Boolean): Sequence<T> {
    return DropSequence(this, predicate)
}

/**
 * Returns a sequence containing only elements matching the given [predicate].
 * The operation is _intermediate_ and _stateless_.
 */
@kotlin.internal.OnlyInputTypes public fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {
    return FilteringSequence(this, predicate)
}

/**
 * Returns a sequence containing only elements matching the given [predicate] and [predicateIndexed].
 * The operation is _intermediate_ and _stateless_.
 */
@kotlin.internal.OnlyInputTypes public fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {
    return FilteringIndexedSequence(this, predicate)
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * The operation is _intermediate_ and _stateless_.
 */
@kotlin.internal.OnlyInputTypes public fun <T> Sequence<T>.filterTo(destination: Sequence<T>, predicate: (T) -> Boolean): Sequence<T> {
    return FilteringIndexedSequence(this, predicate, destination)
}

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[predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element. The operation is *terminal*. 

The operation is *intermediate_* and _stateless_* */

```kotlin
public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {
    forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Returns a sequence containing all elements that are instances of specified type parameter R.
 * The operation is *intermediate_* and _stateless_* */
public fun <R> Sequence<*>.filterIsInstanceTo(destination: MutableList<R>): Sequence<R> {
    @Suppress("UNCHECKED_CAST")
    return filter { it is R } as Sequence<R>
}

/**
 * Returns a sequence containing all elements not matching the given [predicate].
 * The operation is *intermediate_* and _stateless_* */
public fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {
    return FilteringSequence(this, false, predicate)
}

/**
 * Returns a sequence containing all elements that are not `null`.
 * The operation is *intermediate_* and _stateless_* */
public fun <R> Sequence<*>.filterNotNull(): Sequence<R> {
    @Suppress("UNCHECKED_CAST")
    return filterNot { it == null } as Sequence<R>
}

/**
 * Returns a sequence containing first [n] elements.
 * The operation is *intermediate_* and _stateless_* */
public fun <T> Sequence<T>.take(n: Int): Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> emptySequence()
        this is DropTakeSequence -> this.take(n)
        else -> TakeSequence(this, n)
    }
}
```
is _intermediate_ and _stateful_.

```kotlin
/**
 * Returns a sequence that yields elements of this sequence sorted according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * The operation is _intermediate_ and _stateful_.
 */
public inline fun <T, R : Comparable<R>>
    Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {
    return
        sortedWith(compareByDescending(selector))
}

/**
 * Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T : Comparable<T>>
    Sequence<T>.sortedDescending(): Sequence<T> {
    return
        sortedWith(reverseOrder())
}

/**
 * Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T, K, V>
    Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    return
        associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)
    }
}
```
puts to the [destination] map each group key associated with a list of corresponding elements.

* The operation is _terminal_.

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* The operation is _termi...
sequence * and appends only the non-null results to the given [destination].

* The operation is _terminal_.

*public inline fun <T, R : Any, C : MutableCollection<R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?)
        : C {
    val forEach = Each { element -> transform(element) }?.let { destination.add(it) }
    return destination
}

*orphaned inline fun <T, R, C : MutableCollection<R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

*public fun <T> Sequence<T>.withIndex():
    Sequence<IndexedValue<T>> {
        return IndexingSequence(this)
    }

*public fun <T> Sequence<T>.distinct(): Sequence<T> {
    return this.distinctBy { it }
}

*public fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {
    return DistinctSequence(this, selector)
}

*public fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>()
    for (item in this)
        set.add(item)
    return set
}

*public inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {
    for (element in this)
        if (!predicate(element)) return false
    return true
}

*public fun <T> Sequence<T>.any(): Boolean {
    return iterator().hasNext()
}

*public inline fun <T> Sequence<T>.any(predicate: (T) -> Boolean): Boolean {
    for (element in this)
        if (predicate(element)) return true
    return false
}

*public fun <T> Sequence<T>.count(): Int {
    var count = 0
    for (element in this)
        checkCountOverflow(++count)
    return count
}

*public inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this)
        accumulator = operation(accumulator, element)
    return accumulator
}

*public inline fun <T, R> Sequence<T>.foldIndexed(initial: (T) -> R): R {
    var accumulator = initial
    for (index in this)
        accumulator = operation(checkIndexOverflow(accumulator, operation(accumulator, element)))
    return accumulator
}

*public fun <T> Sequence<T>.foldIndexed(initial: (T) -> Unit): Unit {
    var accumulator = initial
    for (element in this)
        accumulator = operation(checkIndexOverflow(accumulator, element))
    return accumulator
}

*public fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this)
        accumulator = operation(accumulator, element)
    return accumulator
}

*public fun <T, R> Sequence<T>.foldIndexed(initial: (T) -> Unit): R {
    var accumulator = initial
    for (index in this)
        accumulator = operation(checkIndexOverflow(accumulator, operation(accumulator, element)))
    return accumulator
}

*public fun <T, R> Sequence<T>.forEach(action: (T) -> Unit): Unit {
    var accumulator = initial
    for (element in this)
        accumulator = operation(accumulator, element)
    return accumulator
}
iterator = iterator()\n      if (!iterator.hasNext()) return null\n
    var min = iterator.next()\n      while (iterator.hasNext()) {\n        var e = iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n
    return min\n
} *\n
The operation is _terminal_ \n
* \n
* @sample samples.collections.Collections.Aggregates.none *\n
public fun \n
<T> Sequence<T>.none(): Boolean {\n  return !iterator.hasNext()\n} *\n
The operation is _terminal_ \n
* \n
* @sample samples.collections.Collections.Aggregates.noneWithPredicate *\n
public inline fun \n
<T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return false\n  return true\n} *\n
The operation is _terminal_ \n
* \n
* @sample samples.collections.Collections.Aggregates.reduce\n
public fun \n
<T, S : S> Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n  return reduceOrNull(operation)\n} *\n
The operation is _terminal_ \n
* \n
* @sample samples.collections.Collections.Aggregates.reduceOrNull *\n
public fun \n
<T, R> Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n  return scan(initial)\n} *\n
The operation is _intermediate_ and _stateless_ \n
* \n
* @sample samples.collections.Collections.Aggregates.scan

*\n
@SinceKotlin("1.3.3")\n@ExperimentalStdlibApi *\n
public fun \n
<R, T> Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n  return scan(initial)\n} *\n
The operation is _intermediate_ and _stateless_ \n
* \n
* @sample samples.collections.Collections.Aggregates.scan

*\n
@SinceKotlin("1.3.3")\n@ExperimentalStdlibApi *\n
public fun \n
<R, T> Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n  return scan(initial)\n} *\n
The operation is _intermediate_ and _stateless_ \n
* \n
* @sample samples.collections.Collections.Aggregates.watchScan

*\n
@SinceKotlin("1.3.3")\n@ExperimentalStdlibApi *\n
public fun \n
<R, T> Sequence<T>.watchScan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n  return watchScan(initial)\n} *\n
The operation is _intermediate_ and _stateless_ \n
* \n
* @sample samples.collections.Collections.Aggregates.watchScan
element itself, and calculates the next accumulator value.\n
* The operation is _intermediate_ and _stateless_.\n
* \n
* @sample samples.collections.Collections.Aggregates.scan

---

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T, R> Sequence<T>.scanIndexed(initial: R, operation: (Int, acc: R, T) -> R): Sequence<R> {\n    var accumulator = initial\n    for (element in this) {\n        yield(accumulator)\n        accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n    }\n    return Sequence(R())\n}

/**\n * Returns a sequence containing successive accumulation values generated by applying \[operation\] from left to right.\n
* to each element and current accumulator value that starts with the first element of this sequence.\n
* Note that \`acc\` value passed to \[operation\] function should not be mutated;\n
* otherwise it would affect the previous value in resulting sequence.\n
* @param \[operation\] function that takes current accumulator value and the element, and calculates the next accumulator value.\n
* The operation is _intermediate_ and _stateless_.\n
* \n
* @sample samples.collections.Collections.Aggregates.scanReduce

---

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
fun <S, T : S> Sequence<T>.scanReduce(operation: (acc: S, T) -> S): Sequence<S> {
    var accumulator: S = iterator().next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
        yield(accumulator)
    }
    return Sequence(S())
}

/**\n * Returns a sequence containing successive accumulation values generated by applying \[operation\] from left to right.\n
* to each element, its index in the original sequence and current accumulator value that starts

* with the first element of this sequence.\n
* Note that \`acc\` value passed to \[operation\] function should not be mutated;\n
* otherwise it would affect the previous value in resulting sequence.\n
* The operation is _intermediate_ and _stateless_.\n
* \n
* @sample samples.collections.Collections.Aggregates.scanReduce

---

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {
    return windowed(size, size, partialWindows = true)
}

/**\n * Splits this sequence into several lists each not exceeding the given \[size\].\n
* and applies the given \[transform\] function to an each.\n
* Note that the list passed to the \[transform\] function is ephemeral and is valid only inside that function.\n
* You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n
* The last list may have less elements than the given \[size\].\n
* @param \[size\] \n
* @sample samples.collections.Collections.Transformations.chunked
```

---

```kotlin
@SinceKotlin("1.2")
public fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {\n    return windowed(size, size, partialWindows = true)\n}
```
elements to take in each list, must be positive and can be greater than the number of elements in this sequence. The operation is `intermediate` and `stateful`. It returns a sequence containing all elements of the original sequence without the first occurrence of the given `element`. The operation is `intermediate` and `stateless`.

```kotlin
@sample samples.text.Strings.chunkedTransform
@SinceKotlin("1.2")
public fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R):
    Sequence<R> {
        return windowed(size, size, partialWindows = true, transform = transform).mapNotNull
    }

/**
 * Returns a sequence containing all elements of the original sequence without the first occurrence of the given `element`. The operation is `intermediate` and `stateless`.
 */
public operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            var removed = false
            return this@minus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()
        }
    }
}

/**
 * Returns a sequence containing all elements of the original sequence except the elements contained in the given `elements` array.
 */
public operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            return this@minus.filterNot { it in other }.iterator()
        }
    }
}

/**
 * Returns a sequence containing all elements of the original sequence except the elements contained in the given `elements` collection.
 */
public operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            val other = elements.convertToSetForSetOperation()
            if (other.isEmpty())
                return this@minus.iterator()
            else
                return this@minus.filterNot { it in other }.iterator()
        }
    }
}

/**
 * Returns a sequence containing all elements of the original sequence except the elements contained in the given `elements` sequence.
 */
public operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            val other = elements.toHashSet()
            if (other.isEmpty())
                return this@minus.iterator()
            else
                return this@minus.filterNot { it in other }.iterator()
        }
    }
}

/**
 * Returns a sequence containing all elements of the original sequence without the first occurrence of the given `element`. The operation is `intermediate` and `stateless`.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {
    return minus(element)
}

/**
 * Splits the original sequence into pair of lists, where *first* list contains elements for which *predicate* yielded `true`, while *second* list contains elements for which *predicate* yielded `false`.
 */
public inline fun <T> Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Returns a sequence containing all elements of the original sequence without the first occurrence of the given `element`. The operation is `intermediate` and `stateless`.
 */
public operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            var removed = false
            return this@plus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()
        }
    }
}

```
Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {
    return MergingSequence(this, other, transform)
}

/**
 * Returns a sequence containing the results of applying the given [transform] function
 * to an each pair of two adjacent elements in this sequence.
 * The operation is _intermediate_ and _stateless_.
 */
@sample samples.collections.Collections.Transformations.zipWithNext
public fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {
    return zipWithNext { a, b -> a to b }
}

/**
 * Returns a sequence containing the results of applying the given 
 * [transform] function to an each pair of two adjacent elements in this sequence.
 * The operation is _intermediate_ and _stateless_.
 */
@sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
public fun <T, R> Sequence<T>.zipWithNextToFindDeltas(transform: (a: T, b: T) -> R): Sequence<R> {
    return sequence result@
    { val iterator = iterator()
        if (!iterator.hasNext()) return@result
        var current = iterator.next()
        while (iterator.hasNext()) {
            val next = iterator.next()
            yield(transform(current, next))
            current = next
        }
    }
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * The operation is _terminal_.
 */
@sample samples.collections.Collections.Transformations.joinToString
public fun <T> Sequence<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = ", ", postfix: CharSequence = ", ", limit: Int = -1, truncated: CharSequence = "...", transform: T? -> String) = joinTo(separator, prefix, postfix, limit, truncated, transform).toString()

/**
 * Creates an [Iterable] instance that wraps the original sequence returning its elements when being iterated.
 */
@sample samples.collections.Collections.Transformations
public fun <T> Sequence<T>.asIterable(): Iterable<T> {
    return Iterable { this.iterator() }
}

/**
 * Returns this sequence as a [Sequence].
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.asSequence(): Sequence<T> {
    return this
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Sequence<Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun Sequence<Short>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Sequence<Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Sequence<Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns a sequence of pairs of each two adjacent elements in this sequence.
 * The operation is _intermediate_ and _stateless_.
 */
@sample samples.collections.Collections.Transformations.zipWithNext
sum += element
checkCountOverflow(;++count)
return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Sequence<Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(;++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Sequence<Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(;++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Sequence<Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Sequence<Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Sequence<Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Sequence<Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Sequence<Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Sequence<Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")

package kotlin.collections

import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns a set containing all elements of the original set except the given [element].
 * The returned set preserves the element iteration order of the original set.
 * The operation is _terminal_.
 */
public operator fun <T> Set<T>.minus(element: T): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size))
    var removed = false
    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.
 * The returned set preserves the element iteration order of the original set.
 * The operation is _terminal_.
 */
public operator fun <T> Set<T>.minus(elements: Collection<T>): Set<T> {
    val other = elements.convertToSetForSetOperationWith(this)
    if (other.isEmpty())
        return this.toSet()
    if (other is Set)
        return this.filterNotTo(LinkedHashSet<T>()) { it in other }
    val result = LinkedHashSet<T>(this)
    result.removeAll(other)
    return result
}

/**
 * Returns a set containing all elements of the original set except the given [element].
 * The returned set preserves the element iteration order of the original set.
 * The operation is _terminal_.
 */
public operator fun <T> Set<T>.minus(element: T): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size))
    var removed = false
    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}

/**
 * Returns a set containing all elements of the original set except the given [elements] collection.
 * The returned set preserves the element iteration order of the original set.
 * The operation is _terminal_.
 */
public operator fun <T> Set<T>.minus(elements: Collection<T>): Set<T> {
    val other = elements.convertToSetForSetOperationWith(this)
    if (other.isEmpty())
        return this.toSet()
    if (other is Set)
        return this.filterNotTo(LinkedHashSet<T>()) { it in other }
    val result = LinkedHashSet<T>(this)
    result.removeAll(other)
    return result
}

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except the elements contained in the given [elements] sequence.
The returned set preserves the element iteration order of the original set.

The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn’t change between successive invocations.

```kotlin
// Set<T>.minus(elements: Sequence<T>)
public operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(elements)
    return result
}
```

```kotlin
// Set<T>.minusElement(element: T)
public fun <T> Set<T>.minusElement(element: T): Set<T> {
    return minus(element)
}
```

```kotlin
// Set<T>.plus(element: T)
public operator fun <T> Set<T>.plus(element: T): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size + 1))
    result.addAll(this)
    result.add(element)
    return result
}
```

```kotlin
// Set<T>.plus(elements: Array<out T>)
public operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(elements.size + size))
    result.addAll(this)
    result.addAll(elements)
    return result
}
```

```kotlin
// Set<T>.plus(elements: Iterable<T>)
public operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size * 2))
    result.addAll(this)
    result.addAll(elements)
    return result
}
```

```kotlin
// Set<T>.plusElement(element: T)
public fun <T> Set<T>.plusElement(element: T): Set<T> {
    return plus(element)
}
```

```
/*
 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin.text

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.random.*

/**
 * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public expect fun CharSequence.elementAt(index: Int): Char

/**
 * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns first character.
 * @throws [NoSuchElementException] if the char sequence is empty.
 */
public fun CharSequence.first(): Char {
    if
```
character matching the given [predicate], or throws exception if there is no or more than one matching character. 

public inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Char sequence contains more than one matching element.
\}
            single = element
            found = true
        } 
    } 
    if (!found) throw NoSuchElementException("Char sequence contains no character matching the predicate.")

    return single
}

/**
 * Returns single character, or `null` if the char sequence is empty or has more than one character.
 */
public fun CharSequence.singleOrNull(): Char? {
    return if (length == 1) this[0] else null
}

/**
 * Returns the single character matching the given [predicate], or `null` if character was not found or more than one character was found.
 */
public inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

/**
 * Returns a subsequence of this char sequence with the first [n] characters removed.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.text.Strings.drop
 */
public fun CharSequence.drop(n: Int): CharSequence {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return subSequence(n.coerceAtMost(length), length)
}

/**
 * Returns a string with the first [n] characters removed.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.text.Strings.drop
 */
public fun String.drop(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return substring(n.coerceAtMost(length))
}

/**
 * Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.text.Strings.drop
 */
public inline fun CharSequence.dropLast(n: Int): CharSequence {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return 
}

/**
 * Returns a string containing all characters except last characters that satisfy the given [predicate].
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.text.Strings.drop
 */
public inline fun String.dropLast(n: Int): String {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return substring(index)
    return 
}

/**
 * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].
 * @param [predicate] function that takes the index of a character and the character itself and returns the result of predicate evaluation on the character.
 */
public inline fun
inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

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inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()

inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M { for (element in this) { destination.put(keySelector(element), valueTransform(element)) } return destination } populate()
samples.collections.Collections.Transformations.groupByKeysAndValues\n*/
public inline fun <K, V>
CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}

/**
 * Groups
characters of the original char sequence by the key returned by the given [keySelector] function\n* applied to each
character and puts to the [destination] map each group key associated with a list of corresponding characters.\n* @return The [destination] map.\n*/
public inline fun <K, V, M : MutableMap<K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<Char>() }\n        list.add(element)\n    }
    return destination
}

/**
 * Creates a [Grouping] source from a char sequence to be used later with one of group-and-
fold operations\n* using the specified [keySelector] function to extract a key from each character.\n* @sample samples.collections.Collections.Transformations.groupBy\n*/
@SinceKotlin("1.1")
public inline fun <K>
CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {
    return object : Grouping<Char, K> {
        override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()\n        override fun keyOf(element: Char): K = keySelector(element)\n    }
}

/**
 * Returns a list containing the
results of applying the given [transform] function\n* to each character in the original char sequence.\n* @sample samples.text.Strings.map\n*/
public inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {
    return mapTo(ArrayList<R>(length), transform)
}

/**
 * Returns a list
containing only the non-null results of applying the given [transform] function\n* to each character and its index in the original char sequence.\n* @param [transform] function that takes the index of a character and the character itself\n* and returns the result of the transform applied to the character.\n* @sample samples.collections.Collections.Transformations.groupBy\n*/
public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNullTo(destination: C, transform: (index: Int, Char) -> R): List<R> {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))\n    return destination
}

/**
 * Applies the given [transform] function to each character and its index in the original char
sequence\n* and appends only the non-null results to the given [destination].\n* @param [transform] function that takes the index of a character and the character itself\n* and returns the result of the transform applied to the character.\n* @sample samples.collections.Collections.Transformations.groupBy\n*/
public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNullTo(destination: C, transform: (index: Int, Char) -> R?): List<R> {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))\n    return destination
}

/**
 * Applies the given [transform] function to each character and its index in the original char
sequence\n* and appends only the non-null results to the given [destination].\n* @sample samples.collections.Collections.Transformations.groupBy\n*/
public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNullTo(destination: C, transform: (index: Int, Char) -> R?): List<R> {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))\n    return destination
}
and appends only the non-null results to the given [destination].

```kotlin
public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {
    return destination.mapNotNullTo(destination, transform)
}

/**
 * Applies the given [transform] function to each character of the original char sequence * and appends the results to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Returns a lazy [Iterable] that wraps each character of the original char sequence * into an [IndexedValue] containing the index of that character and the character itself.
 */
public fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns `true` if all characters match the given [predicate].
 */
public inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if char sequence has at least one character.
 */
public fun CharSequence.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one character matches the given [predicate].
 */
public inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns the length of this char sequence.
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.count(): Int {
    return length
}

/**
 * Returns the number of characters matching the given [predicate].
 */
public inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each character.
 */
public inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left to each character and current accumulator value.
 * 
 * @param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.
 */
public inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Performs the given [action] on each character.
 */
public inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each character, providing sequential index with the character.
 */
public inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

/**
 * Performs the given [action] on each character, the character itself and current accumulator value, and performs the desired action on the character.
 */
public inline fun CharSequence.forEachIndexed(action: (Char) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Returns the largest character or `null` if there are no characters.
 */
public fun CharSequence.max(): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

---

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 4513
@sample samples.collections.Collections.Aggregates.maxBy
*/

public inline fun <R : Comparable<R>>
CharSequence.maxBy(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxVal = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxVal < v) {
            maxElem = e
            maxVal = v
        }
    }
    return maxElem
}

/**
 * Returns the first character having the largest value according to the provided [comparator] or `null` if there are no characters.
 */
public fun
CharSequence.maxWith(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minVal = comparator(minElem, this[1])
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = comparator(e, this[i + 1])
        if (minVal > v) {
            minElem = e
            minVal = v
        }
    }
    return minElem
}

/**
 * Returns the smallest character or `null` if there are no characters.
 */
public fun
CharSequence.min(): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the first character yielding the smallest value of the given function or `null` if there are no characters.
 * 
 * @sample samples.collections.Collections.Aggregates.minBy
 */
public inline fun <R : Comparable<R>>
CharSequence.minBy(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first character having the smallest value according to the provided [comparator] or `null` if there are no characters.
 */
public fun
CharSequence.minWith(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns `true` if the char sequence has no characters.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public fun CharSequence.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if no characters match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun
CharSequence.none(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Performs the given [action] on each character and returns the char sequence itself afterwards.
 */
@SinceKotlin("1.1")
public inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S
{
    return apply { for (element in this) action(element) }
}

/**
 * Accumulates value starting with the first character and applying [operation] from left to right to each character.
 * 
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first character and applying [operation] from left to right to each character.
 * 
 * @param [operation] function that takes the index of a character, current accumulator value
 * and the character itself and calculates the next accumulator value.
 * 
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@SinceKotlin("1.2")
@ExperimentalStdlibApi
public inline fun CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Returns null if the char sequence is empty.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with last character and applying [operation] from right to left to each character.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun CharSequence.reduceRight(operation: (acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = this[0]
    for (index in (lastIndex - 1 downTo 0).reversed()) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
        index--
    }
    return accumulator
}

/**
 * Accumulates value starting with last character and applying [operation] from right to left to each character with its index in the original char sequence and current accumulator value. @param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        index--
    }
    return accumulator
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character and current accumulator value that starts with [initial] value. @param [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character, its index in the original char sequence and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of a character, current accumulator value and a character, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNonNull
 */
*@
@SinceKotlin("1.3")@ExperimentalStdlibApi
public inline fun CharSequence.reduceRightOrNonNull(operation: (Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character and current accumulator value that starts with the first character of this char sequence. @param [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")@ExperimentalStdlibApi
public inline fun <R>(CharSequence).scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {
    var accumulator = this[0]
    val result: ArrayList<Char> = ArrayList(length).apply { add(accumulator) }
    for (index in 1 until length) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in `result`. The `accumulator` function takes the index of a character, current accumulator value and the character itself, and calculates the next accumulator value.

```kotlin
private fun @SinceKotlin("1.3")@ExperimentalStdlibApi
public inline fun CharSequence.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(length).apply {
        add(accumulator)
    }
    for (index in 1 until length) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.
 */
public inline fun CharSequence.sumBy(selector: (Char) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.
 */
public inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Splits this char sequence into a sequence of strings each not exceeding the given [size].
 * 
 * The last string in the resulting sequence may have less characters than the given [size].
 * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.
 */
@SinceKotlin("1.2")
public fun CharSequence.chunked(size: Int): List<String> {
    return windowed(size, size, partialWindows = true)
}

/**
 * Splits this char sequence into several char sequences each not exceeding the given [size].
 * 
 * The last string in the resulting sequence may have less characters than the given [size].
 * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

/**
 * Splits the original char sequence into pair of char sequences, where the first char sequence contains characters for which [predicate] yielded `true`, while the second char sequence contains characters for which [predicate] yielded `false`.
 * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.partition(predicate: (Char) -> Boolean): Pair<R, R> {
    val first = StringBuilder()
    val second = StringBuilder()
    for (element in this) {
        if (predicate(element)) {
            first.append(element)
        } else {
            second.append(element)
        }
    }
    return Pair(first, second)
}
second)\n}\\n}*\n"* Splits the original string into pair of strings.
* where *first* string contains characters for which [predicate] yielded 'true',\n* while *second* string contains characters for which [predicate] yielded 'false'.\n* @sample samples.text.Strings.partition
*谘public inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n    val first = StringBuilder()\n    val second = StringBuilder()\n    for (element in this) {\n        if (predicate(element)) {\n            first.append(element)\n        } else {\n            second.append(element)\n        }\n    }\n    return Pair(first.toString(), second.toString())\n}

/**
 * Splits the original string into pair of strings,\n * where *first* string contains characters for which [predicate] yielded \n * true,\n * while *second* string contains characters for which [predicate] yielded \n * false.\n * @sample samples.text.Strings.partition
 */
public inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n    val first = StringBuilder()\n    val second = StringBuilder()\n    for (element in this) {\n        if (predicate(element)) {\n            first.append(element)\n        } else {\n            second.append(element)\n        }\n    }\n    return Pair(first.toString(), second.toString())\n}

/**
 * Returns a list of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * Several last strings may have less characters than the given [size].\n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default 'false' which means partial windows won't be preserved\n */
@SinceKotlin("1.2")
public fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n    return windowed(size, step, partialWindows) { it.toString() }\n}

/**
 * Returns a list of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size] with\n * sliding along this char sequence with the given [step].\n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have less characters than the given [size].\n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default 'false' which means partial windows won't be preserved\n */
@SinceKotlin("1.2")
public fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<R> {\n    checkWindowSizeStep(size, step)\n    val thisSize = this.length\n    val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n    val result = ArrayList<R>(resultCapacity)\n    var index = 0\n    while (index in 0 until thisSize) {\n        val end = index + size\n        val coercedEnd = if (end < 0 || end > thisSize) { if (partialWindows) thisSize else break } else end\n        result.add(transform(subSequence(index, coercedEnd)))\n        index += step\n    }\n    return result\n}

/**
 * Returns a sequence of snapshots of the window of the given [size] with\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * Several last strings may have less characters than the given [size].\n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default 'false' which means partial windows won't be preserved\n */
@SinceKotlin("1.2")
public fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {\n    return windowedSequence(size, step, partialWindows) { it.toString() }\n}

/**
 * Returns a sequence of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size] with\n * sliding along this char sequence with the given [step].\n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have less characters than the given [size].\n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default 'false' which means partial windows won't be preserved\n */
@SinceKotlin("1.2")
public fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<R> {\n    checkWindowSizeStep(size, step)\n    val thisSize = this.length\n    val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n    val result = ArrayList<R>(resultCapacity)\n    var index = 0\n    while (index in 0 until thisSize) {\n        val end = index + size\n        val coercedEnd = if (end < 0 || end > thisSize) { if (partialWindows) thisSize else break } else end\n        result.add(transform(subSequence(index, coercedEnd)))\n        index += step\n    }\n    return result\n}
samples.collections.Sequences.Transformations.averageWindows\n*/\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform:
(CharSequence) -> R): Sequence<CharSequence> { val checkWindowSize = if (size < step || step < 0 || size > length) throw IllegalArgumentException("Invalid window size")
    val length = length - size + 1
    val windows = (if (!partialWindows) 0 until length - size + 1 step step) return windows.asSequence().map { index ->
        val end = index + size
        val coercedEnd = if (end < 0 || end > length) length else end
        transform(subSequence(index, coercedEnd))
    }
}

/**
 * Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The returned list has length of the shortest char sequence\n * * * @sample samples.collections.Sequences.zipWithNext\n */
@SinceKotlin("1.2")
public fun <R> CharSequence.zipWithNext(): List<Pair<Char, Char>> { return zipWithNext { a, b -> a to b }
}

/**
 * Returns a list containing the results of applying the given [transform] function\n * to each pair of adjacent characters in this char sequence.\n * * The returned list is empty if this char sequence contains less than two characters.\n * * * @sample samples.collections.Collections.Transformations.zipWithNext\n */
@SinceKotlin("1.2")\npublic fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> { val size = length - 1
    if (size < 1) return emptyList()
    val result = ArrayList<R>(size)
    for (index in 0 until size) { result.add(transform(this[index], this[index + 1]))
    }
    return result
}

/**
 * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n * */\n@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")\npackage kotlin.text

import kotlin.contracts.contract

/**
 * Returns a sub sequence of this char sequence having\n * leading and trailing characters matching the [predicate] removed.\n * */\npublic fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence { var varStartIndex = 0
    var endIndex = length - 1
    var varStartFound = false while (startIndex <= endIndex) { val index = if (!varStartFound) startIndex else endIndex
        val match = predicate(this[index])
        if (!varStartFound) { varStartFound = true
        } else if (!match) break
        else startIndex = index
    }
    return subSequence(startIndex, endIndex + 1)
}

/**
 * Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.\n * */\npublic fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence { var varStartIndex = 0
    var endIndex = length - 1
    var varStartFound = false while (startIndex <= endIndex) { val index = if (!varStartFound) startIndex else endIndex
        val match = predicate(this[index])
        if (!varStartFound) { varStartFound = true
        } else if (!match) break
        else endIndex = index
    }
    return subSequence(startIndex, endIndex + 1)
}

/**
 * Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.\n * */\npublic fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence { var varStartIndex = 0
    var endIndex = length - 1
    var varEndFound = false while (startIndex <= endIndex) { val index = if (!varEndFound) startIndex else endIndex
        val match = predicate(this[index])
        if (!varEndFound) { varEndFound = true
        } else if (!match) break
        else endIndex = index
    }
    return subSequence(startIndex, endIndex + 1)
}
@param length the desired string length.
* @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.
* @return Returns a string of length at least [length] consisting of `this` string appended with [padChar] as many times as are necessary to reach that length.
* @sample samples.text.Strings.padEnd
*
*/
public fun String.padEnd(length: Int, padChar: Char = ' '): String =
  (this as CharSequence).padEnd(length, padChar).toString()

/**
 * Returns `true` if this char sequence is empty (contains no characters).
 * @sample samples.text.Strings.stringIsEmpty
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.isEmpty(): Boolean = length == 0

/**
 * Returns `false` if this char sequence is null or empty or consists solely of whitespace characters.
 * @sample samples.text.Strings.stringIsNullOrBlank
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence?.isNullOrBlank(): Boolean {
    contract {
        returns(false) implies (this@isNullOrBlank != null)
    }

    return this == null || this.isBlank()
}

/**
 * Returns `true` if this char sequence is not null and doesn't consist solely of whitespace characters.
 * @sample samples.text.Strings.stringIsNotBlank
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.isNotBlank(): Boolean = !isBlank()

/**
 * Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters, or the result of calling 
 * [defaultValue] function otherwise.
 * @sample samples.text.Strings.stringIfBlank
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =
    if (isBlank()) defaultValue() else this

/**
 * Returns a substring specified by the given [range] of indices.
 */
public fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

/**
 * Returns a subsequence of this char sequence.
 * @sample samples.text.Strings.stringSubSequence
 */
public fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)
public inline fun String.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).toString()

public fun String.substringBefore(delim: Char, missingDelimiterValue: String = this): String {
    val index = indexOf(delim)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

public fun String.substringBefore(delim: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delim)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

public fun String.substringAfter(delim: Char, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delim)
    return if (index == -1) missingDelimiterValue else substring(index + 1, length)
}

public fun String.substringAfter(delim: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delim)
    return if (index == -1) missingDelimiterValue else substring(index + delim.length, length)
}

public fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): CharSequence {
    if (endIndex < startIndex) throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")
    val sb = StringBuilder()
    sb.appendRange(this, 0, startIndex)
    sb.append(replacement)
    sb.appendRange(this, endIndex, length)
    return sb
}

public inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): String =
    (this as CharSequence).replaceRange(startIndex, endIndex, replacement).toString()
given [range]ln * is replaced with the [replacement] char sequence.
ln *\n* The end index of the [range] is included in the part to be replaced.
ln */

CharSequence.replaceRange(range: IntRange, replacement: String): String =
    replaceRange(range.start, range.endInclusive + 1, replacement)

Replace the part of string at the given [range] with the [replacement] string.
ln *\n* The end index of the [range] is included in the part to be replaced.
ln */

CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {
    if (endIndex == startIndex)
        return subSequence(startIndex, endIndex)
    val sb = StringBuilder(length - (endIndex - startIndex))
    sb.appendRange(this, 0, startIndex)
    sb.appendRange(this, endIndex, length)
    return sb.toString()
}

Removes the part of a string at a given range. ln *\n* @param startIndex the index of the first character to be removed.
ln *\n* @param endIndex the index of the first character after the removed part to keep in the string.
ln */

CharSequence.removeRange(startIndex: Int, endIndex: Int): String =
    (this as CharSequence).removeRange(startIndex, endIndex).toString()

CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence):
CharSequence {
    if (startsWith(prefix) && endsWith(suffix)) {
        return subSequence(prefix.length, length)
    }
    return subSequence(0, length)
}

Removes from a string both the given [prefix] and [suffix] if and only if
* it starts with the [prefix] and ends with the [suffix].
ln */

CharSequence.removeSurrounding(delimiter: CharSequence):
CharSequence {
    if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {
        return subSequence(prefix.length, length - suffix.length)
    }
    return subSequence(0, length)
}

Removes from a string both the given [prefix] and [suffix] if and only if
* it starts with the [prefix] and ends with the [suffix].
ln */

CharSequence.removeSurrounding(delimiter: CharSequence): String {
    if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {
        return this.subSequence(prefix.length, length - suffix.length)
    }
    return this.subSequence(0, length)
}

Removes a char sequence with content of this char sequence where its part at the
given [range] is removed. \n *\n* The end index of the [range] is included in the removed part.
ln */

CharSequence.removeRange(range: IntRange): CharSequence = removeRange(range.start, range.endInclusive + 1)

Removes the part of a string at the given [range].
ln *\n* The end index of the [range] is included in the removed part.
ln */

CharSequence.removeRange(range: IntRange): String =
    (this as CharSequence).removeRange(range).toString()
CharSequence = removeSurrounding(delimiter, delimiter)\n\nRange = removeSurrounding(delimiter, delimiter)\n
public fun String.removeSurrounding(delimiter: CharSequence): String = 

private fun String.removeSurrounding(delimiter: CharSequence, replacement: String): String = 

public fun String.removeSurrounding(delimiter: String, replacement: String): String = 

public fun String.removeSurrounding(delimiter: Char, replacement: String): String = 

public fun String.removeSurrounding(delimiter: String): String = 

public fun String.removeSurrounding(delimiter: Char): String = 

private fun String.removeSurrounding(delimiter: Range): String = 

private fun String.removeSurrounding(delimiter: Range, replacement: String): String = 

private fun String.removeSurrounding(delimiter: Range, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: CharSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: CharSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: CharSequenceSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: CharSequenceSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequenceSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequenceSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: CharSequenceSequenceSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: CharSequenceSequenceSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequenceSequenceSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequenceSequenceSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: CharSequenceSequenceSequenceSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: CharSequenceSequenceSequenceSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequenceSequenceSequenceSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequenceSequenceSequenceSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: CharSequenceSequenceSequenceSequenceSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: CharSequenceSequenceSequenceSequenceSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequenceSequenceSequenceSequenceSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequenceSequenceSequenceSequenceSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: CharSequenceSequenceSequenceSequenceSequenceSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: CharSequenceSequenceSequenceSequenceSequenceSequence, replacement: String, missingDelimiterValue: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequenceSequenceSequenceSequenceSequenceSequence, replacement: String): String = 

private fun String.removeSurrounding(delimiter: RangeSequenceSequenceSequenceSequenceSequenceSequence, replacement: String, missingDelimiterValue: String): String = 


/*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline transform: 
(MatchResult) -> CharSequence): String =
regex.replace(this, transform)*/

@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline replacement: 
(A replacement expression that can include substitutions. See [Regex.replaceFirst] for 
details.)

@kotlin.internal.InlineOnly\npublic inline infix fun CharSequence.matches(regex: 
Regex): Boolean =
regex.matches(this)

/**
 * Implementation of [regionMatches] for CharSequences.
 */

/**
 * Returns `true` if this char sequence starts with the specified character.
 */

/**
 * Returns `true` if a substring of this char sequence starting at the specified offset 
[startIndex] starts with the specified prefix.
 */

/**
 * Returns the longest string `prefix` such that this char sequence and 
[other] char sequence both start with this prefix,
 * taking care not to split surrogate pairs.
 * If this and [other] have no common prefix, returns the empty string.
 */

/**
 * Returns the longest string `suffix` such that this char sequence and 
[other] char sequence both end with this suffix,
 * taking care not to split surrogate pairs.
 * If this and [other] have no common suffix, returns the empty string.
 */

/**
 * Finds the index of the first occurrence of any of the specified 
[chars] in this char sequence,
 * starting from the specified [startIndex] and optionally ignoring the case.
 * By default `false`.
 */

/*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: 
Int, length: Int, ignoreCase: Boolean): Boolean =
CharSequence.regionMatchesImpl(0, other, 0, length, ignoreCase)
*/
string from [strings] or -1 if none of [strings] are found.

To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [strings] that matches this string at that position.

*public fun
CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =
findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1

* Returns the index of the last occurrence of any of the specified [strings] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.

*public fun
CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int =
lastIndexOfAny(strings, startIndex, ignoreCase, last = true)?.first ?: -1

* Returns the index within this string of the last occurrence of any of the specified characters, starting from the specified [startIndex].

*public fun
CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =
if (other is String)
indexOf(other, ignoreCase = ignoreCase) >= 0
else
indexOf(other, 0, length, ignoreCase) >= 0

* Returns `true` if this char sequence contains the specified [other] sequence of characters as a substring.

*public operator fun
CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =
indexOf(char, ignoreCase = ignoreCase) >= 0

* Returns `true` if this char sequence contains any occurrence of the specified character.

*public operator fun
CharSequence.contains(regex: Regex, ignoreCase: Boolean = false): Boolean =
indexOf(regex, ignoreCase = ignoreCase) >= 0

* Returns `true` if this char sequence contains at least one match of the specified regular expression.
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean =
regex.containsMatchIn(this)\n\nprivate class DelimitedRangesSequence(input: CharSequence, var startIndex: Int, private val limit: Int, private val getNextMatch: CharSequence.(currentIndex: Int) -> Pair<Int, IntRange?>) : Sequence<IntRange?> {

    private val input: CharSequence,
    private val startIndex: Int,
    private val limit: Int,
    private val getNextMatch: CharSequence.(currentIndex: Int) -> Pair<Int, IntRange?> =
        { index, length } -> 
            match = input.getNextMatch(index, length)
            if (match == null) {
                nextItem = null
            } else {
                val (matchStart, matchEnd) = match
                nextItem = index until matchEnd
                currentStartIndex = matchStart
                nextSearchIndex = -1
            } if (nextSearchIndex < 0) {
            nextSearchIndex = 0
            nextItem = null
        } else {
            nextItem = null
            nextSearchIndex = -1
            override fun hasNext(): Boolean {
                if (nextState == -1)
                    nextItem = null
                if (nextState == 0)
                    throw NoSuchElementException()
                val result = nextItem as IntRange
                if (nextState == 1)
                    if (nextItem == IntRange(0, input.length))
                        throw NoSuchElementException()
rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) } * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].

RangesDelimitedBy(delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> { try {
    if (delimiters.size == 1) {
        val delimiter = delimiters[0]
        if (!delimiter.isEmpty()) {
            return split(delimiter, ignoreCase, limit)
        }
    }

    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

/**
 * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].
 * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from
 * the beginning to the end of this string, and matches at each position the first element in
 * [delimiters] that is equal to a delimiter in this instance at that position.
 *
 * @param delimiters One or more delimiters to split by.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 * @throws
 */

private fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
    require(limit >= 0, { "Limit must be non-negative, but was $limit." })

    var currentOffset = 0
    var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    if (nextIndex == -1 || limit == 1) {
        return listOf(this.toString())
    }

    val isLimited = limit > 0
    val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)
    do {
        result.add(substring(currentOffset, nextIndex))
        currentOffset = nextIndex + delimiter.length
        // Do not search for next occurrence if we're reaching limit
        if (isLimited && result.size == limit - 1) break
        nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    } while (nextIndex != -1)

    result.add(substring(currentOffset, length))
    return result
}

/**
 * Splits this char sequence around matches of the given regular expression.
 *
 * @param limit Non-negative value specifying the maximum number of substrings to return.
 * @return
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> = regex.split(this, limit)

/**
 * Splits this char sequence to a list of lines delimited by any of the following character sequences:
 * CRLF, LF or CR.
 *
 * The lines returned do not include terminating line separators.
 */
public fun CharSequence.lines(): List<String> = lineSequence().toList()
IndexOutOfBoundsException if either [offset] or [length] are less than zero or 'offset + length' is out of [chars] array bounds.

If either [offset] or [length] are less than zero or 'offset + length' is out of [chars] array bounds.

var result = \"\" for (index in offset until offset + length) \n    result += char[index]
\nreturn result
\n* * * * *

Concatenates characters in this [CharArray] into a String.

var result = \"\" for (char in this) \n    result += char
\nreturn result
\n* * * * *

Decodes a string from the bytes in UTF-8 encoding in this array.

var result = \"\" for (it in 0 until startInclusive + endExclusive) \n    result += \n    \nreturn result
\n* * * * *

Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.

var result = \"\" for (it in 0 until startInclusive + endExclusive) \n    result += \n    \nreturn result
\n* * * * *

Encodes this string to an array of bytes in UTF-8 encoding.

var result = \"\" for (it in 0 until startInclusive + endExclusive) \n    result += \n    \nreturn result
\n* * * * *

Encodes this string or its substring to an array of bytes in UTF-8 encoding.

* * * * *
@throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.
* @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
* @throws CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.
* @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.

** Returns a copy of this string converted to upper case using the rules of the default locale.
* @sample samples.text.Strings.toUpperCase
*/
@kotlin.internal.InlineOnly
public actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()

/**
 * Returns a copy of this string converted to lower case using the rules of the default locale.
 */
@kotlin.internal.InlineOnly
public actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()

@kotlin.internal.InlineOnly
internal actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str, fromIndex)

@kotlin.internal.InlineOnly
internal actual inline fun String.nativeLastIndexOf(str: String, fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)

@kotlin.internal.InlineOnly
internal inline fun String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s, position)

@kotlin.internal.InlineOnly
internal inline fun String.nativeEndsWith(s: String): Boolean = asDynamic().endsWith(s)

@kotlin.internal.InlineOnly
public actual inline fun String.substring(startIndex: Int): String = asDynamic().substring(startIndex)

@kotlin.internal.InlineOnly
public actual inline fun String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex, endIndex)

@kotlin.internal.InlineOnly
public inline fun String.concat(str: String): String = asDynamic().concat(str)

@kotlin.internal.InlineOnly
public inline fun String.match(regex: String): Array<String>? = asDynamic().match(regex)

//native public fun String.trim(): String
//TODO: String.replace to implement effective trimLeading and trimTrailing

@kotlin.internal.InlineOnly
internal inline fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern, replacement)

@SinceKotlin("1.2")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {
    if (ignoreCase) {
        val n1 = this.length
        val n2 = other.length
        val min = minOf(n1, n2)
        if (min == 0) return n1 - n2
        var start = 0
        while (true) {
            val end = minOf(start + 16, min)
            var s1 = this.substring(start, end)
            var s2 = other.substring(start, end)
            if (s1 != s2) {
                s1 = s1.toUpperCase()
                s2 = s2.toUpperCase()
                if (s1 != s2) {
                    s1 = s1.toLowerCase()
                    s2 = s2.toLowerCase()
                    if (s1 != s2) {
                        return s1.compareTo(s2)
                    }
                }
            }
            if (end == min) break
            start = end
        }
        return n1 - n2
    } else {
        return compareTo(other)
    }
}

private val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }

@SinceKotlin("1.2")
public actual val String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>
    get() = STRING_CASE_INSENSITIVE_ORDER

// Auto-generated file. DO NOT EDIT!

package kotlin

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UByteArray @PublishedApi internal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {

    /** Creates a new array of the specified [size], with all elements initialized to zero. */
    public constructor(size: Int) : this(storage)

    /**
     * Returns the array element at the given [index]. This method can be called using the index operator.
     */
    public operator fun get(index: Int): UByte = storage[index]

    /**
     * Sets the element at the given [index]
     */
    public operator fun set(index: Int, element: UByte) {
        storage[index] = element
    }
}

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to the given [value]. This method can be called using the index operator.

*\n* If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS

*\n* public operator fun set(index: Int, value: UByte) {
    storage[index] = value.toByte()
}

/** Returns the number of elements in the array. */
*\n* public override val size: Int get() = storage.size

*\n* Creates an iterator over the elements of the array. */

public override val iterator: UByteIterator =
    Iterator(storage)

private class Iterator(private val array: ByteArray) : UByteIterator {
    private var index = 0
    override fun hasNext() = index < array.size
    override fun nextUByte() = if (index < array.size)
        array[index++].toUByte() else throw NoSuchElementException(index.toString())

    override fun contains(element: UByte): Boolean {
        // TODO: Eliminate this check after KT-30016 gets fixed.
        // Currently JS BE does not generate special bridge method for this method. If ((element as Any?) !is UByte)
        return false
    }

    override fun containsAll(elements: Collection<UByte>): Boolean {
        return (elements as Collection<*>).all { it is UByte &&
            storage.contains(it.toByteArray()) }
    }
}

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 * can be found in the license/LICENSE.txt file. */

// Auto-generated file. DO NOT EDIT!

package kotlin

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
    UByteArray(size: Int, init: (Int) -> UByte): UByteArray {
    return UByteArray(ByteArray(size) { index ->
        init(index).toByte()
    })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
    ubyteArrayOf(vararg elements: UByte): UByteArray = elements

UIntArray(size: Int, init: (Int) -> UInt): UIntArray {
    return UIntArray(IntArray(size) { index ->
        init(index).toInt()
    })
}

/**
 * Creates a new array of the specified [size], with all elements initialized to zero.
 * @param public constructor(size: Int):
 * this(LongArray(size))
 */

public inline fun uintArrayOf(vararg elements: UInt): UIntArray = elements

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 */

// Auto-generated file. DO NOT EDIT!

package kotlin

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray(vararg elements: ULong): ULongArray = elements

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 */

// Auto-generated file. DO NOT EDIT!

package kotlin

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline class ULong @PublishedApi internal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {

    public constructor(size: Int) : this(LongArray(size))

    public operator fun get(index: Int): ULong = storage[index].toULong()

    public operator fun set(index: Int, value: ULong) {
        storage[index] = value.toLong()
    }

    override val size: Int get() = storage.size

    override fun iterator(): ULongIterator = Iterator(storage)

    private class Iterator(private val array: LongArray) : ULongIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextULong() = if (index < array.size)
            array[index++].toULong() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: ULong): Boolean {
        // TODO: Eliminate this check after KT-30016 gets fixed.
        // Currently JS BE does not generate special bridge method for this method.
        // if ((element as Any?) is ULong)
        return false
    }

    override fun containsAll(elements: Collection<ULong>): Boolean {
        return (elements as Collection<*>).all { it is ULong &&
            storage.contains(it.toLong()) }
    }

    companion object {
        /**
         * A constant holding the minimum value an instance of ULong can have.
         */
        public const val MIN_VALUE: ULong = ULong(0)

        /**
         * A constant holding the maximum value an instance of ULong can have.
         */
        public const val MAX_VALUE: ULong = ULong(-1)

        /**
         * The number of bytes used to represent an instance of ULong in a binary form.
         */
        public const val SIZE_BYTES: Int = 8

        /**
         * The number of bits used to represent an instance of ULong in a binary form.
         */
    }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline class ULongArray(size: Int, init: (Int) -> ULong): ULongArray {
    return ULongArray(IntArray(size) { index ->
        init(index).toInt()
    })
}

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 */

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline class ULong @PublishedApi internal constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {

    companion object {
        /**
         * A constant holding the minimum value an instance of ULong can have.
         */
        public const val MIN_VALUE: ULong = ULong(0)

        /**
         * A constant holding the maximum value an instance of ULong can have.
         */
        public const val MAX_VALUE: ULong = ULong(-1)

        /**
         * A constant holding the minimum value an instance of ULong can have.
         */
        public const val SIZE_BITS: Int = 64
    }

    private val companion object {
        /**
         * A constant holding the minimum value an instance of ULong can have.
         */
        public const val MIN_VALUE: ULong = ULong(0)

        /**
         * A constant holding the maximum value an instance of ULong can have.
         */
        public const val MAX_VALUE: ULong = ULong(-1)

        /**
         * The number of bytes used to represent an instance of ULong in a binary form.
         */
        public const val SIZE_BYTES: Int = 8

        /**
         * The number of bits used to represent an instance of ULong in a binary form.
         */
    }

    override fun compareTo(other: ULong) = this - other

    operator fun plus(other: ULong): ULong = this + other

    operator fun minus(other: ULong): ULong = this - other

    operator fun times(other: ULong): ULong = this * other

    operator fun div(other: ULong): ULong = this / other

    operator fun mod(other: ULong): ULong = this % other

    operator fun and(other: ULong): ULong = this and other

    operator fun or(other: ULong): ULong = this or other

    operator fun xor(other: ULong): ULong = this xor other

    override fun toString(): String {
        return toStringBase(16)
    }

    override fun toStringBase(base: Int): String {
        val sb = StringBuilder()
        var value = this
        while (value > 0) {
            sb.append(value % base)
            value /= base
        }
        return sb.reverse().toString()
    }

    public override val hashCode: Int = hashToLong().toInt()

    override fun hashToLong(): Long {
        var result = 0
        var temp = this
        while (temp > 0) {
            result = (result shl 5) + temp
            temp = temp.ushr(32)
        }
        return result
    }

    public override fun equals(other: Any?): Boolean {
        if (this === other) return true
        if (other !is ULong) return false
        return compareTo(other) == 0
    }

    override fun toString(): String {
        return toStringBase(16)
    }

    public override fun compareTo(other: Any?): Int {
        if (this === other) return 0
        if (other !is ULong) return -1
        return compareTo(other)
same numerical value as this `Byte`.

* The least significant 8 bits of the resulting `ULong` value are the same

Converts this 

If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents
* the same numerical value as this `ULong`.

* The resulting `Byte` value is represented by the least significant 8 bits of this `ULong` value.

* Note that the resulting `Byte` value may be negative.

@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()

/** Converts this `ULong` value to [Short].

* If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents
* the same numerical value as this `ULong`.

* The resulting `Short` value is represented by the least significant 16 bits of this `ULong` value.

* Note that the resulting `Short` value may be negative.

@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data.toShort()

/** Converts this `ULong` value to [Int].

* If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents
* the same numerical value as this `ULong`.

* The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value.

* Note that the resulting `Int` value may be negative.

@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt()

/** Converts this `ULong` value to [Long].

* If this value is less than or equals to [Long.MAX_VALUE], the resulting `Long` value represents
* the same numerical value as this `ULong`.

* The resulting `Long` value has the same binary representation as this `ULong` value.

@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data.toLong()

/** Converts this `ULong` value to [UByte].

* If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents
* the same numerical value as this `ULong`.

* The resulting `UByte` value is represented by the least significant 8 bits of this `ULong` value.

@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte()

/** Converts this [ULong] value to [UShort].

* If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents
* the same numerical value as this `ULong`.

* The resulting `UShort` value is represented by the least significant 16 bits of this `ULong` value.

@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = data.toUShort()

/** Converts this [ULong] value to [UInt].

* If this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents
* the same numerical value as this `ULong`.

@kotlin.internal.InlineOnly
public inline fun toUInt(): UInt = data.toUInt()

/** Converts this [ULong] value to [ULong].

* If this value is less than or equals to [ULong.MAX_VALUE], the resulting `ULong` value represents
* the same numerical value as this `ULong`.

* The resulting `ULong` value is represented by the least significant 32 bits of this `ULong` value.

@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = data.toULong()

/** Performs a bitwise XOR operation between the two values. */

@kotlin.internal.InlineOnly
public inline infix fun xor(other: ULong): ULong = ULong(data xor other.data)

/** Performs a bitwise OR operation between the two values. */

@kotlin.internal.InlineOnly
public inline infix fun or(other: ULong): ULong = ULong(data or other.data)

/** Performs a bitwise AND operation between the two values. */

@kotlin.internal.InlineOnly
public inline infix fun and(other: ULong): ULong = ULong(data and other.data)

/** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits
with zeros. */

@kotlin.internal.InlineOnly
public inline infix fun shr(bitCount: Int): ULong = ULong(data shr bitCount)

/** Shifts this value left by the [bitCount] number of bits. */

@kotlin.internal.InlineOnly
public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)

/** Returns the closest `Float` to this `ULong` value. */

in this case when this `ULong` value is exactly between two `Double`s, the one with zero at
least significant bit of mantissa is selected.

* An @kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toDouble().toFloat()

/** Converts this `ULong` value to [Double]. */

An @kotlin.internal.InlineOnly
public inline fun toDouble(): Double = this.toDouble()

/** Converts this `ULong` value to [Float]. */

An @kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toDouble()

** Returns this value. */

An @kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt()

** Converts this [ULong] value to [Int]. */

An @kotlin.internal.InlineOnly
public inline fun toULong(): ULong = this

** Converts this [Byte] value to [ULong]. */

An @kotlin.internal.InlineOnly
public inline fun toULong(): ULong = this

** Converts this [Byte] value to [UByte]. */

An @kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte()

** Converts this [ULong] value to [Byte]. */

An @kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()

** Inverts the bits in this value. */

An @kotlin.internal.InlineOnly
public inline fun inv(): ULong = ULong(data.inv())

/** Inverts the bits in this value. */

An @kotlin.internal.InlineOnly
public inline fun not(): ULong = ULong(data.inv())

/** Returns this value. */

An @kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = data.toUShort()

/** Returns this value. */

An @kotlin.internal.InlineOnly
public inline fun toUInt(): UInt = data.toUInt()

/** Returns this value. */

An @kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()
as the bits of this `Byte` value,\n * whereas the most significant 56 bits are filled with the sign bit of this value,\n */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Byte.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Short] value to [ULong].\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\n * whereas the most significant 48 bits are filled with the sign bit of this value,\n */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Short.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Int] value to [ULong].\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`.\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value,\n * whereas the most significant 32 bits are filled with the sign bit of this value,\n */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Int.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Long] value to [ULong].\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`.\n * The resulting `ULong` value has the same binary representation as this `Long` value,\n */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Long.toULong(): ULong = ULong(this).\n/**\n * Converts this [Float] value to [ULong].\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it’s bigger than [ULong.MAX_VALUE].\n */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Float.toULong(): ULong = doubleToULong(this.toDouble())\n/**\n * Converts this [Double] value to [ULong].\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it’s bigger than [ULong.MAX_VALUE].\n */
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Double.toULong(): ULong = doubleToULong(this)\n
/**
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package kotlin

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\ninternal class UShortArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ShortArray) : Collection<UShort> {\n    /**\n     * Creates a new array of the specified [size], with all elements initialized to zero.\n     *\n     *\n     *\n     *\n     */
    constructor(size: Int) : this(ShortArray(size))\n
    /**
     * Returns the array element at the given [index]. This method can be called using the index operator.\n     *\n     *\n     */
    operator fun get(index: Int): UShort = storage[index].toUShort()\n
    /**
     * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n     *\n     *\n     */
    operator fun set(index: Int, value: UShort) { storage[index] = value.toShort()\n
    /** Returns the number of elements in the array.\n    *\n    */
    override fun size: Int get() = storage.size\n
    override fun iterator(): UShortIterator = Iterator(storage)\n
    private class Iterator(private val array: ShortArray) : UShortIterator() {\n        /**\n         * Creates an iterator over the elements of the array.\n         *\n         */
        override fun hasNext() = array.size > index\n
        override fun nextUShort() = if (index < array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())\n
        override fun contains(element: UShort): Boolean {\n            // TODO: Eliminate this check after KT-30016 gets fixed.\n            // Currently JS BE does not generate special bridge method for this method.\n            if (element == Any?) {\n                storage.contains(element) \n            } else throw NoSuchElementException(index.toString())\n
        override fun containsAll(elements: Collection<UShort>): Boolean {
            return false\n
        override fun fun isEmpty(): Boolean = storage.size == 0\n
        override fun iterator(): Iterator = Iterator(storage)\n
        private class Iterator(private val array: ShortArray) : UShortIterator() {\n            /**\n             * Returns the array element at the given [index].\n             *\n             */
            operator fun get(index: Int): UShort = storage[index].toUShort()\n
            /** Returns the number of elements in the array.\n            */
            override fun size: Int get() = storage.size\n
            override fun iterator(): Iterator = Iterator(storage)\n
        private class Iterator(private val array: ShortArray) : UShortIterator() {\n            /**\n             * Creates an iterator over the elements of the array.\n             *\n             */
            override fun hasNext() = array.size > index\n
            override fun nextUShort() = if (index < array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())\n
            override fun contains(element: UShort): Boolean {\n                // TODO: Eliminate this check after KT-30016 gets fixed.\n                // Currently JS BE does not generate special bridge method for this method.\n                if (element == Any?) {\n                    storage.contains(element) \n                } else throw NoSuchElementException(index.toString())\n
            override fun containsAll(elements: Collection<UShort>): Boolean {
                return false\n
            override fun fun isEmpty(): Boolean = storage.size == 0\n
        // Auto-generated file. DO NOT EDIT!

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Creates a new array of the specified [size], where each element is calculated by calling the specified function. The function is called for each array element sequentially starting from the first one. It should return the value for an array element given its index.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {
    return UShortArray(ShortArray(size) { index -> init(index).toShort() })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ushortArrayOf(vararg elements: UShort): UShortArray = elements
```

---

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---

Visit: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

---

The behavior is unspecified when the size of this array is less than 1, throws an `IndexOutOfBoundsException` except in Kotlin/JS where the behavior is unspecified.

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The behavior is unspecified when the size of this array is less than 1, throws an `IndexOutOfBoundsException` except in Kotlin/JS where the behavior is unspecified.
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)  4537

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.component3(): UInt {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.component3(): ULong {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.component3(): UByte {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.component3(): UShort {
    return get(2)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.component4(): UInt {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.component4(): ULong {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.component4(): UByte {
    return get(3)
}

/**
 * Returns 4th *element* from the array.
 * 
 * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.component4(): UShort {
    return get(3)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.component5(): UInt {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.component5(): ULong {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.component5(): UByte {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.component5(): UShort {
    return get(4)
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.elementAt(index: Int): UInt

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.elementAt(index: Int): ULong

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.elementAt(index: Int): UByte

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.elementAt(index: Int): UShort

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.elementAt(index: Int): UByte

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.elementAt(index: Int): UShort
```
out of bounds of this array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.elementAt(index: Int):
ULong
out of bounds of this array.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.elementAt(index: Int):
UByte
out of bounds of this array.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.elementAt(index: Int):
UShort
out of bounds of this array.
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.elementAt(index: Int, defaultValue: (Int) -> UInt): UInt {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.elementAt(index: Int, defaultValue: (Int) -> ULong): ULong {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.elementAt(index: Int, defaultValue: (Int) -> UByte): UByte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.elementAt(index: Int, defaultValue: (Int) -> UShort): UShort {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.elementAtOrNull(index: Int): UInt? {
    return getOrNull(index)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.elementAtOrNull(index: Int): ULong? {
    return getOrNull(index)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.elementAtOrNull(index: Int): UByte? {
    return getOrNull(index)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.elementAtOrNull(index: Int): UShort? {
    return getOrNull(index)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.find(predicate: (UInt) -> Boolean): UInt? {
    return firstOrNull(predicate)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.find(predicate: (ULong) -> Boolean): ULong? {
    return firstOrNull(predicate)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.find(predicate: (UByte) -> Boolean): UByte? {
    return firstOrNull(predicate)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.find(predicate: (UShort) -> Boolean): UShort? {
    return firstOrNull(predicate)
}
```
first element matching the given [predicate], or `null` if no such element was found.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n    return firstOrNull(predicate)\n}
```

Returns the first element matching the given [predicate], or `null` if no such element was found.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n    return firstOrNull(predicate)\n}
```

Returns the first element matching the given [predicate], or `null` if no such element was found.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n    return firstOrNull(predicate)\n}
```

Returns the first element matching the given [predicate], or `null` if no such element was found.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n    return lastOrNull(predicate)\n}
```

Returns the last element matching the given [predicate], or `null` if no such element was found.

```kotlin
*\@SinceKotlin("1.3")\@ ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n    return lastOrNull(predicate)\n}
```

Returns the last element matching the given [predicate], or `null` if no such element was found.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n    return lastOrNull(predicate)\n}
```

Returns the last element matching the given [predicate], or `null` if no such element was found.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n    return lastOrNull(predicate)\n}
```

Returns the last element matching the given [predicate], or `null` if no such element was found.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(): UInt {\n    return storage.first().toUInt()\n}
```

Returns first element.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(): ULong {\n    return storage.first().toULong()\n}
```

Returns first element.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(): UByte {\n    return storage.first().toUByte()\n}
```

Returns first element.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(): UShort {\n    return storage.first().toUShort()\n}
```

Returns first element.

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}
```

Returns the first element matching the given [predicate].

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}
```

Returns the first element matching the given [predicate].

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}
```

Returns the first element matching the given [predicate].

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}
```

Returns the first element matching the given [predicate].

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.firstLast(predicate: (UInt) -> Boolean): UInt? {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}
```

Returns the first element matching the given [predicate].

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.firstLast(predicate: (ULong) -> Boolean): ULong? {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}
```

Returns the first element matching the given [predicate].

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.firstLast(predicate: (UByte) -> Boolean): UByte? {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}
```

Returns the first element matching the given [predicate].

```kotlin
*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.firstLast(predicate: (UShort) -> Boolean): UShort? {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}
```

Returns the first element matching the given [predicate].
element is found.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun

UShortArray.first(predicate: (UShort) -> Boolean): UShort? { \n    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.\")
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UIntArray.firstOrNull(): UInt? { \n    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? { \n    for (element in this) if (predicate(element)) return element
    return null
}

/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? { \n    for (element in this) if (predicate(element)) return element
    return null
}

/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? { \n    for (element in this) if (predicate(element)) return element
    return null
}

/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? { \n    for (element in this) if (predicate(element)) return element
    return null
}

/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? { \n    for (element in this) if (predicate(element)) return element
    return null
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun

UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun

UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun

ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UIntArray.firstOrEmpty(): UInt

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UIntArray.firstOrNull(): UInt? { \n    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun

UShortArray.firstOrEmpty(): UShort? { \n    return if (isNotEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun

UByteArray.firstOrEmpty(): UByte? { \n    return if (isNotEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun

UShortArray.firstOrEmpty(): UShort? { \n    return if (isNotEmpty()) null else this[0]
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun

UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun

UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UIntArray.firstOrNull(): UInt?
ULong? \n return if (index >= 0 && index <= lastIndex) get(index) else null

@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int): UShort? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOf(element: UInt): Int {
    return storage.indexOf(element.toInt())
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOf(element: ULong): Int {
    return storage.indexOf(element.toLong())
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOf(element: UByte): Int {
    return storage.indexOf(element.toByte())
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOf(element: UShort): Int {
    return storage.indexOf(element.toShort())
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUInt()) }
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toULong()) }
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUByte()) }
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUShort()) }
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toUInt()) }
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toULong()) }
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toUByte()) }
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toUShort()) }
}
predicate(it.toUShort())

*\n\n\n" Returns the last element.

* @throws [NoSuchElementException] if the array is empty.

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*\n\n\n" Returns the last element.

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*\n\n\n" Returns the last element.

* @throws [NoSuchElementException] if no such element is found.

*\n\n\n" Returns the last element matching the given [predicate].

* @throws [NoSuchElementException] if no such element is found.

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* @throws [NoSuchElementException] if no such element is found.

*\n\n\n" Returns the last element matching the given [predicate].

* @throws [NoSuchElementException] if no such element is found.

 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.isDirectory(): Boolean {
    return storage.isDirectory()
}

/**
 * Returns true if the array is not empty.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.isEmpty(): Boolean {
    return storage.isEmpty()
}

/**
 * Returns the size of the array.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.size: Int { return storage.size

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.lastIndexOf(element: UInt): Int {
    return storage.lastIndexOf(element.toInt())
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun ULongArray.lastIndexOf(element: ULong): Int {
    return storage.lastIndexOf(element.toLong())
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.lastIndexOf(element: UByte): Int {
    return storage.lastIndexOf(element.toByte())
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.lastIndexOf(element: UShort): Int {
    return storage.lastIndexOf(element.toShort())
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.lastOrNull(): UInt? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.lastOrNull(): ULong? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.lastOrNull(): UByte? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.lastOrNull(): UShort? {
    return if (isEmpty()) null else this[size - 1]
}
return if (isEmpty()) null else this[size - 1]

/**
 * Returns the last element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UByteArray.lastOrNull(): UByte? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UShortArray.lastOrNull(): UShort? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.random(random: Random): UInt {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.random(random: Random): ULong {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.random(random: Random): UByte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.random(random: Random): UShort {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}
get(random.nextInt(size))

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public inline fun UIntArray.randomOrNull(): UInt? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public inline fun ULongArray.randomOrNull(): ULong? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public inline fun UByteArray.randomOrNull(): UByte? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public inline fun UShortArray.randomOrNull(): UShort? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
public fun UIntArray.randomOrNull(random: Random): UInt? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
public fun ULongArray.randomOrNull(random: Random): ULong? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
public fun UByteArray.randomOrNull(random: Random): UByte? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
public fun UShortArray.randomOrNull(random: Random): UShort? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public inline fun UIntArray.single(): UInt {
    return storage.single().toUInt()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public inline fun ULongArray.single(): ULong {
    return storage.single().toULong()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public inline fun UByteArray.single(): UByte {
    return storage.single().toUByte()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public inline fun UShortArray.single(): UShort {
    return storage.single().toUShort()
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun UIntArray.single(predicate: (UInt) -> Boolean): UInt {
    var single: UInt? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as UInt
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {
    var single: ULong? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as ULong
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun UByteArray.single(predicate: (UByte) -> Boolean): UByte {
    var single: UByte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as UByte
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun UShortArray.single(predicate: (UShort) -> Boolean): UShort {
    var single: UShort? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as UShort
}
public inline fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {
    var single: ULong? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as ULong
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public fun UByteArray.singleOrNull(): UByte? {
    return if (size == 1) this[0] else null
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public fun UShortArray.singleOrNull(): UShort? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.singleOrNull(): UInt? {
    return if (size == 1) this[0] else null
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {
    var single: UByte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as UByte
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
    var single: UShort? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as UShort
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {
    var single: ULong? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as ULong
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {
    var single: UInt? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    @Suppress("UNCHECKED_CAST")
    return single as UInt
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {
    var single: UByte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    @Suppress("UNCHECKED_CAST")
    return single as UByte
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
    var single: UShort? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    @Suppress("UNCHECKED_CAST")
    return single as UShort
}
found = false
for (element in this) {
    if (predicate(element)) {
        if (found) return null
        single = element
        found = true
    }
}
if (!found) return null
return single
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.drop(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0)).toUIntArray()
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.drop(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0)).toULongArray()
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.drop(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0)).toUByteArray()
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.drop(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0)).toUShortArray()
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.dropLast(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0)).toUIntArray()
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.dropLast(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0)).toULongArray()
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.dropLast(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0)).toUByteArray()
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.dropLast(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0)).toUShortArray()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given [predicate].
 * 
 * @sample @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given [predicate].
 * 
 * @sample @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given [predicate].
 * 
 * @sample @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given [predicate].
 * 
 * @sample @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
*\@SinceKotlin("1.3")\@n@\@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    var yielding = false\n    val list = ArrayList<UShort>()\n    for (item in this) {\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    }\n    return list\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    var yielding = false\n    val list = ArrayList<UInt>()\n    for (item in this) {\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    }\n    return list\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    var yielding = false\n    val list = ArrayList<ULong>()\n    for (item in this) {\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    }\n    return list\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    var yielding = false\n    val list = ArrayList<UByte>()\n    for (item in this) {\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    }\n    return list\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    var yielding = false\n    val list = ArrayList<UShort>()\n    for (item in this) {\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    }\n    return list\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {
    return filterTo(ArrayList<UInt>(), predicate)\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {
    return filterTo(ArrayList<ULong>(), predicate)\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {
    return filterTo(ArrayList<UByte>(), predicate)\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {
    return filterTo(ArrayList<UShort>(), predicate)\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {
    return filterTo(ArrayList<UInt>(), predicate)\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {
    return filterTo(ArrayList<ULong>(), predicate)\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {
    return filterTo(ArrayList<UByte>(), predicate)\n}

*\@SinceKotlin("1.3")\@n@\@ExperimentalUnsignedTypes@n@\@kotlin.internal.InlineOnly\@n@\@\@public inline fun
UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {
    return filterTo(ArrayList<UShort>(), predicate)\n}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort>
{
    return filterTo(ArrayList<UShort>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt>
{
    return filterIndexedTo(ArrayList<UInt>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong>
{
    return filterIndexedTo(ArrayList<ULong>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte>
{
    return filterIndexedTo(ArrayList<UByte>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort>
{
    return filterIndexedTo(ArrayList<UShort>(), predicate)
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C :.MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C
{
    forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) -> Boolean): C
{
    forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) -> Boolean): C
{
    forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) -> Boolean): C
{
    forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.add(element)
    }
    return destination
}
destination.add(element) // Returns a list containing all elements not matching the given [predicate].

/**
 * Returns a list containing all elements not matching the given [predicate].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {
    return filterNotTo(ArrayList<UInt>(), predicate)
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {
    return filterNotTo(ArrayList<ULong>(), predicate)
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {
    return filterNotTo(ArrayList<UByte>(), predicate)
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {
    return filterNotTo(ArrayList<UShort>(), predicate)
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * 
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}
if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
public fun UIntArray.slice(indices: IntRange):
List<UInt> { 
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
public fun ULongArray.slice(indices: IntRange):
List<ULong> { 
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
public fun UByteArray.slice(indices: IntRange):
List<UByte> { 
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
public fun UShortArray.slice(indices: IntRange):
List<UShort> { 
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
public fun UIntArray.slice(indices: Collection<Int>): UIntArray { 
    return UIntArray(storage.sliceArray(indices))
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
public fun ULongArray.slice(indices: Collection<Int>): ULongArray { 
    return ULongArray(storage.sliceArray(indices))
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
public fun UByteArray.slice(indices: Collection<Int>): UByteArray { 
    return UByteArray(storage.sliceArray(indices))
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
public fun UShortArray.slice(indices: Collection<Int>): UShortArray { 
    return UShortArray(storage.sliceArray(indices))
}
UByteArray.sliceArray(indices: IntRange): UByteArray
  \n  @throws IllegalArgumentException if [n] is negative.\n  \n  * @sample samples.collections.Collections.Transformations.take

*UShortArray.sliceArray(indices: IntRange): UShortArray
  \n  @throws IllegalArgumentException if [n] is negative.\n  \n  * @sample samples.collections.Collections.Transformations.take

*UIntArray.sliceArray(indices: IntRange): UIntArray
  \n  @throws IllegalArgumentException if [n] is negative.\n  \n  * @sample samples.collections.Collections.Transformations.take

*UByteArray.sliceArray(indices: IntRange): UByteArray
  \n  @throws IllegalArgumentException if [n] is negative.\n  \n  * @sample samples.collections.Collections.Transformations.take
@sample samples.collections.Collections.Transformations.take

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.takeLast(n: Int): List<UShort>

\{\n  require(n >= 0) { "Requested element count $n is less than zero." }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<UShort>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n\n\}

Returns a list containing last elements satisfying the given [predicate].

@sample samples.Collections.Transformations.take

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt>

\{\n  for (index in lastIndex downTo 0)\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  return toList()\n\n\}

Returns a list containing last elements satisfying the given [predicate].

@sample samples.Collections.Transformations.take

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong>

\{\n  for (index in lastIndex downTo 0)\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  return toList()\n\n\}

Returns a list containing last elements satisfying the given [predicate].

@sample samples.Collections.Transformations.take

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte>

\{\n  for (index in lastIndex downTo 0)\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  return toList()\n\n\}

Returns a list containing last elements satisfying the given [predicate].

@sample samples.Collections.Transformations.take

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort>

\{\n  for (index in lastIndex downTo 0)\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  return toList()\n\n\}

Returns a list containing last elements satisfying the given [predicate].

@sample samples.Collections.Transformations.take

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.reverse(): Unit

\{\n  storage.reverse()\n\}

Reverses elements in the array in-place.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.reversed(): List<UInt> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.reversed(): List<ULong> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.reversed(): List<UByte> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reversedArray(): UIntArray {
    return UIntArray(storage.reversedArray())
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reversedArray(): ULongArray {
    return ULongArray(storage.reversedArray())
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reversedArray(): UByteArray {
    return UByteArray(storage.reversedArray())
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reversedArray(): UShortArray {
    return UShortArray(storage.reversedArray())
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedList(): List<UInt> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortedList(): List<ULong> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedList(): List<UByte> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedList(): List<UShort> {
    return copyOf().apply { sort() }.asList()
}
UIntArray.sortedArray(): UIntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedArray(): UIntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedDescending(): List<UInt> {
    return copyOf().apply { sort() }.reversed()
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedArrayDescending(): UIntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray {
    return storage
}

/**
 * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray {
    return storage
}

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortedArray(): ULongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortedArrayDescending(): ULongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedArray(): UByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedArrayDescending(): UByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedArray(): UShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedArrayDescending(): UShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}
List< UB(byte) */n/**n * Returns a [List] that wraps the original array.
 */n/**n * Returns an array of type [LongArray], which is a view of this array where each element is a signed reinterpretation/* of the corresponding element of this array.
 */n/**n * Returns an array of type [ByteBuffer], which is a view of this array where each element is an unsigned reinterpretation/* of the corresponding element of this array.
 */n/**n * Returns an array of type [ShortArray], which is a view of this array where each element is an unsigned reinterpretation/* of the corresponding element of this array.
 */n/**n * Returns a hash code based on the contents of this array as if it is [List].

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@expect@n@UShortArray.asList():
List<UShort>/n/**n * Returns an array of type [LongArray], which is a view of this array where each element is a signed reinterpretation/* of the corresponding element of this array.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun ULongArray.asList(): LongArray { return storage/*n/**n * Returns an array of type [ShortArray], which is a view of this array where each element is a signed reinterpretation/* of the corresponding element of this array.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UShortArray.asList(): ShortArray { return storage/*n/**n * Returns an array of type [UByteArray], which is a view of this array where each element is an unsigned reinterpretation/* of the corresponding element of this array.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): UByteArray { return this/*n/**n * Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation/* of the corresponding element of this array.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UShortArray.asList(): UShortArray { return this/*n/**n * Returns an null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun ULongArray.asList(): ULongArray { return this/*n/**n * Returns an null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UIntArray.asList(): UIntArray { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): UByteArray { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UShortArray.asList(): UShortArray { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): UByteArray { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UShortArray.asList(): UShortArray { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): UByteArray { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UShortArray.asList(): UShortArray { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): UByteArray { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.

/*@SinceKotlin("1.3")@n@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly@n@public@n@inline@n@fun UByteArray.asList(): ByteBuffer { return this/*n/**n * Returns a null another, this * i.e. contain the same number of the same elements in the same order.
/*
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.contentToString(): String {
    return joinToString("\n", "\n")
}*/

/**
 * Returns a string representation of the contents of the specified
 * array as if it is [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.contentToString(): String {
    return joinToString("\n", "\n")
}

/**
 * Returns a string representation of the contents of the specified
 * array as if it is [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.contentToString(): String {
    return joinToString("\n", "\n")
}

/**
 * Copies this array or its subrange into the [destination] array and
 * returns that array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UIntArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    return destination
}
It's allowed to pass the same array in the \[destination\] and even specify the subrange so that it overlaps with the destination range. \n* \n* \n* \n* @param destination the array to copy to. \n* \n@param destinationOffset the position in the \[destination\] array to copy to, 0 by default. \n* \n* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n* \n* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n* \n* @throws IndexOutOfBoundsException or \[IllegalArgumentException\] when \[startIndex\] or \[endIndex\] is out of range of this array indices or when `startIndex > endIndex`. \n* \n* @throws IndexOutOfBoundsException when the subrange doesn't fit into the \[destination\] array starting at the specified \[destinationOffset\], \n* \n* when that index is out of the \[destination\] array indices range. \n* \n* \n* @return the \[destination\] array.
Returns a new array which is a copy of the specified range of the original array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {
    return UIntArray(storage.copyOfRange(fromIndex, toIndex))
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {
    return ULongArray(storage.copyOfRange(fromIndex, toIndex))
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {
    return UByteArray(storage.copyOfRange(fromIndex, toIndex))
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {
    return UShortArray(storage.copyOfRange(fromIndex, toIndex))
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toInt(), fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toLong(), fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toByte(), fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toShort(), fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public UIntArray.indices: IntRange
    get() = storage.indices

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toLong(), fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toByte(), fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toShort(), fromIndex, toIndex)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
val UIntArray.indices: IntRange
    get() = storage.indices
```

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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val ULongArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the range of valid indices for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UByteArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the range of valid indices for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UShortArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the last valid index for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UIntArray.lastIndex: Int
    get() = storage.lastIndex

/**
 * Returns the last valid index for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val ULongArray.lastIndex: Int
    get() = storage.lastIndex

/**
 * Returns the last valid index for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UByteArray.lastIndex: Int
    get() = storage.lastIndex

/**
 * Returns the last valid index for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UShortArray.lastIndex: Int
    get() = storage.lastIndex

/**
 * Returns an array containing all elements of the original array and then the given
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline operator fun UIntArray.plus(element: UInt): UIntArray {
    return UIntArray(storage + element.toInt())
}

/**
 * Returns an array containing all elements of the original array and then the given
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline operator fun ULongArray.plus(element: ULong): ULongArray {
    return ULongArray(storage + element.toLong())
}

/**
 * Returns an array containing all elements of the original array and then the given
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline operator fun UByteArray.plus(element: UByte): UByteArray {
    return UByteArray(storage + element.toByte())
}

/**
 * Returns an array containing all elements of the original array and then the given
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
    return UShortArray(storage + element.toShort())
}

/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public operator fun UIntArray.plus(elements: Collection<UInt>): UIntArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toInt()
    return UIntArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public operator fun ULongArray.plus(elements: Collection<ULong>): ULongArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toLong()
    return ULongArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toByte()
    return UByteArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public operator fun UShortArray.plus(elements: Collection<UShort>): UShortArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toShort()
    return UShortArray(result)
}
elements.storage

* Returns an array containing all elements of the given [elements] array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline operator fun UByteArray.plus(elements: UByteArray): UByteArray {
    return UByteArray(storage +
    elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {
    return UShortArray(storage +
    elements.storage)
}

/**
 * Sorts the array in-place.
 * 
 * @sample
 * samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sort(): Unit {
    if (size > 1) sortArray(this)
}

/**
 * Sorts the array in-place.
 * 
 * @sample
 * samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sort(): Unit {
    if (size > 1) sortArray(this)
}

/**
 * Sorts the array in-place.
 * 
 * @sample
 * samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sort(): Unit {
    if (size > 1)
    sortArray(this)
}

/**
 * Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UByteArray.toByteArray(): ByteArray {
    return storage.copyOf()
}

/**
 * Returns an array of type [IntArray], which is a copy of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UIntArray.toIntArray(): IntArray {
    return storage.copyOf()
}

/**
 * Returns an array of type [LongArray], which is a copy of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun ULongArray.toLongArray(): LongArray {
    return storage.copyOf()
}

/**
 * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
* public inline fun UShortArray.toShortArray(): ShortArray {
    return storage.copyOf()
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @public fun UIntArray.toTypedArray(): Array<UInt> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @public fun ULongArray.toTypedArray(): Array<ULong> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @public fun UByteArray.toTypedArray(): Array<ByteArray> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @public fun UShortArray.toTypedArray(): Array<ShortArray> {
    return Array(size) { index -> this[index] }
}
ByteArray.toUByteArray(): UByteArray
   return UByteArray(this.copyOf())

ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte] containing all of the elements of this generic array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
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 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
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@SinceKotlin("1.3")
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 * Returns an array of type [UByte], which is a copy of this array where each element is an unsigned reinterpration
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

*/
MutableCollection<R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each
 * element of original array, to the given [destination].
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R, C: MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each
 * element of original array, to the given [destination].
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R, C: MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector]
 * function in * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements. The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {
    return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector]
 * function in * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements. The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {
    return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector]
 * function in * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements. The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <K> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {
    return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector]
 * function in * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements. The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {
    return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array in * by the key returned by the given
 * [keySelector] function applied to the element in * and returns a map where each group key is associated with a list of
 * corresponding values. The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <K, V> UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array in * by the key returned by the given
 * [keySelector] function applied to the element in * and returns a map where each group key is associated
 * with a list of corresponding values. The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array in * by the key returned by the given
 * [keySelector] function applied to the element in * and returns a map where each group key is associated
 * with a list of corresponding values. The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array in * by the key returned by the given
 * [keySelector] function applied to the element in * and returns a map where each group key is associated
 * with a list of corresponding values. The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}
with a list of corresponding values. * The returned map preserves the entry iteration order of the keys produced from the original array.

samples.collections.Collections.Transformations.groupByKeysAndValues

*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypes
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@public inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

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@kotlin.internal.InlineOnly
@public inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <K, V> UIntArray.groupByTo(destination: MutableMap<K, MutableList<UInt>>, keySelector: (UInt) -> K): Map<K, List<UInt>> {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<UInt>()
        }
        list.add(element)
    }
    return destination
}

*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <K, V> ULongArray.groupByTo(destination: MutableMap<K, MutableList<ULong>>, keySelector: (ULong) -> K): Map<K, List<ULong>> {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<ULong>()
        }
        list.add(element)
    }
    return destination
}

*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <K, V> UByteArray.groupByTo(destination: MutableMap<K, MutableList<UByte>>, keySelector: (UByte) -> K): Map<K, List<UByte>> {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<UByte>()
        }
        list.add(element)
    }
    return destination
}

*An@SinceKotlin("1.3")An@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <K, V> UShortArray.groupByTo(destination: MutableMap<K, MutableList<UShort>>, keySelector: (UShort) -> K):
M \{ \n    for (element in this) \n    \n    val key = keySelector(element) \n    val list = destination.getOrPut(key) { \n        ArrayList<UShort>() \n    } \n    \n    list.add(element) \n    \n    return destination \n\} \n
/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 * @SampleKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M \{ \n    for (element in this) \n    \n    val key = keySelector(element) \n    val list = destination.getOrPut(key) { \n        ArrayList<V>() \n    } \n    \n    list.add(valueTransform(element)) \n    \n    return destination \n\} \n
/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element
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 * Groups values returned by the [valueTransform] function applied to each element of the original array
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 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 * @SampleKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M \{ \n    for (element in this) \n    \n    val key = keySelector(element) \n    val list = destination.getOrPut(key) { \n        ArrayList<V>() \n    } \n    \n    list.add(valueTransform(element)) \n    \n    return destination \n\} \n
/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element in the original array.
 * @return A list containing the results of applying the given [transform] function
 * to each element in the original array.
 * @sample samples.collections.Collections.Transformations.map
 * @SampleKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @public inline fun <R> UByteArray.map(transform: (UByte) -> R): List<R> \{ \n    return mapTo(ArrayList<R>(size), transform) \n\} \n
/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element in the original array.
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 * to each element in the original array.
 * @sample samples.collections.Collections.Transformations.map
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 * @public inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> \{ \n    return mapTo(ArrayList<R>(size), transform) \n\} \n
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 * @sample samples.collections.Collections.Transformations.map
 * @SampleKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @public inline fun <R> UIntArray.map(transform: (UInt) -> R): List<R> \{ \n    return mapTo(ArrayList<R>(size), transform) \n\} \n
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 * Returns a list containing the results of applying the given [transform] function
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 * @sample samples.collections.Collections.Transformations.map
 * @SampleKotlin("1.3")
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 * Returns a list containing the results of applying the given [transform] function
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 * @return A list containing the results of applying the given [transform] function
 * to each element in the original array.
 * @sample samples.collections.Collections.Transformations.map
 * @SampleKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @public inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> \{ \n    return mapTo(ArrayList<R>(size), transform) \n\} \n
/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element in the original array.
 * @return A list containing the results of applying the given [transform] function
 * to each element in the original array.
 * @sample samples.collections.Collections.Transformations.map
 * @SampleKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @public inline fun <R> UByteArray.map(transform: (UByte) -> R): List<R> \{ \n    return mapTo(ArrayList<R>(size), transform) \n\} \n
public inline fun <R> UShortArray.map(transform: (UShort) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element and its index in the original array.
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element and its index in the original array.
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element and its index in the original array.
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element and its index in the original array.
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R, C : MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R, C : MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R, C : MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
public inline fun <R, C : MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
appends the results to the given [destination].

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R, C : MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {
    for (item in this)
    destination.add(transform(item))
    return destination
} // Appends the given [transform] function to each element of the original array

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {
    for (item in this)
    destination.add(transform(item))
    return destination
} // Appends the results to the given [destination].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {
    for (item in this)
    destination.add(transform(item))
    return destination
} // Appends the results to the given [destination].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {
    for (item in this)
    destination.add(transform(item))
    return destination
} // Appends the results to the given [destination].

/**
 * Returns a lazy [Iterable] that wraps each element of the original array
 * into an [IndexedValue] containing the index of that element and the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public fun UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy [Iterable] that wraps each element of the original array
 * into an [IndexedValue] containing the index of that element and the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy [Iterable] that wraps each element of the original array
 * into an [IndexedValue] containing the index of that element and the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public fun UByteArray.withIndex(): Iterable<IndexedValue<UByte>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy [Iterable] that wraps each element of the original array
 * into an [IndexedValue] containing the index of that element and the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public fun UShortArray.withIndex(): Iterable<IndexedValue<UShort>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns `true` if all elements match the given [predicate].
 * @sample samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UIntArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if array has at least one element.
 * @sample samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun ULongArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if array has at least one element.
 * @sample samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UByteArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if array has at least one element.
 * @sample samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UShortArray.any(): Boolean {
    return storage.any()
}
```

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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if array has at least one element.
 * 
 * @sample samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if array has at least one element.
 * 
 * @sample samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.any(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.any(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.any(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.any(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.count(predicate: (UInt) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 * 
 * @sample samples.collections.Collections.Aggregates.fold
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 * 
 * @sample samples.collections.Collections.Aggregates.fold
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 * 
 * @sample samples.collections.Collections.Aggregates.fold
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

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@SinceKotlin("1.3")
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public inline fun <R> UByteArray.foldRight(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {
    var index = lastIndex
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    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

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@SinceKotlin("1.3")
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    var index = lastIndex
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        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

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@SinceKotlin("1.3")
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    var index = lastIndex
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    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.foldRight(initial: R, operation: (Index, acc: R, UShort) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")
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public inline fun <R> UByteArray.foldRight(initial: R, operation: (Index, acc: R, UByte) -> R): R {
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    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
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    var index = lastIndex
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    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
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@SinceKotlin("1.3")
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public inline fun <R> UByteArray.foldRight(initial: R, operation: (Index, acc: R, UByte) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly

```
public inline fun <R>
UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```
/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
UIntArray.foldRightIndexed(initial: R, operation: (Int, UInt, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

```
/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
ULongArray.foldRightIndexed(initial: R, operation: (Int, ULong, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

```
/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
UByteArray.foldRightIndexed(initial: R, operation: (Int, UByte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

```
/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.forEach(action: (UInt) -> Unit): Unit {
    for (element in this) action(element)
}
```

```
/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.forEach(action: (ULong) -> Unit): Unit {
    for (element in this) action(element)
}
```

```
/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.forEach(action: (UByte) -> Unit): Unit {
    for (element in this) action(element)
}
```

```
/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.forEachIndexed(action: (Int, UShort) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}
```

```
/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.forEachIndexed(action: (Int, Int) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}
```

```
/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.forEachIndexed(action: (Int, UInt) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}
```

```
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 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.forEachIndexed(action: (Int, ULong) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}
```

```
/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.forEachIndexed(action: (Int, UByte) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}
```

```
/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.forEachIndexed(action: (Int, UShort) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}
```
the element.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun ULongArray.forEachIndexed(action: (Int, ULong) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}
```

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@SinceKotlin("1.3")
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fun UByteArray.forEachIndexed(action: (Int, UByte) -> Unit): Unit {
    var index = 0
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        action(index++, item)
}
```

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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun UShortArray.forEachIndexed(action: (Int, UShort) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun UIntArray.max(): UInt? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun ULongArray.max(): ULong? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun UByteArray.max(): UByte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun UShortArray.max(): UShort? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun UIntArray.maxBy(selector: (UInt) -> R): UInt? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun ULongArray.maxBy(selector: (ULong) -> R): ULong? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun UByteArray.maxBy(selector: (UByte) -> R): UByte? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun UShortArray.maxBy(selector: (UShort) -> R): UShort? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun UShortArray.maxBy(selector: (UShort) -> R): UShort? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
fun UShortArray.maxBy(selector: (UShort) -> R): UShort? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```
samples.collections.Collections.Aggregates.maxBy

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun \<R : Comparable\<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? { \n    if (isEMPTY()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxVal = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxVal < v)
            \{ 
                maxElem = e
                maxVal = v
            \} 
        \} 
    } 
    return maxElem
} *\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UIntArray.maxWith(selector: (UInt) -> UInt): UInt? { \n    if (isEMPTY()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (selector.compare(max, e) < 0) max = e
    }
    return max
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun ULongArray.maxWith(selector: (ULong) -> ULong): ULong? { \n    if (isEMPTY()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (selector.compare(max, e) < 0) max = e
    }
    return max
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UByteArray.maxWith(selector: (UByte) -> UByte): UByte? { \n    if (isEMPTY()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (selector.compare(max, e) < 0) max = e
    }
    return max
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UShortArray.maxWith(selector: (UShort) -> UShort): UShort? { \n    if (isEMPTY()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (selector.compare(max, e) < 0) max = e
    }
    return max
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UIntArray.min(): UInt? { \n    if (isEMPTY()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun ULongArray.min(): ULong? { \n    if (isEMPTY()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UByteArray.min(): UByte? { \n    if (isEMPTY()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UShortArray.min(): UShort? { \n    if (isEMPTY()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UIntArray.minBy(selector: (UInt) -> UInt): UInt? { \n    if (isEMPTY()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun ULongArray.minBy(selector: (ULong) -> ULong): ULong? { \n    if (isEMPTY()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UByteArray.minBy(selector: (UByte) -> UByte): UByte? { \n    if (isEMPTY()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@public fun UShortArray.minBy(selector: (UShort) -> UShort): UShort? { \n    if (isEMPTY()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}
element yielding the smallest value of the given function or `null` if there are no elements.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun <R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.none(): Boolean {
    return isEmpty()
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.none(): Boolean {
    return isEmpty()
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.none(): Boolean {
    return isEmpty()
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.none(): Boolean {
    return isEmpty()
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.noneWithPredicate(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.noneWithPredicate(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.noneWithPredicate(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.noneWithPredicate(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}
```
### ULongArray

- **none(predicate: (ULong) -> Boolean): Boolean**
  ```kotlin
  return true
  
  // Returns true if no elements match the given [predicate].
  
  * @sample samplesollections.Collections.Aggregates.None
  
  * @SinceKotlin("1.3")
  * @ExperimentalUnsignedTypes
  * @kotlin.internal.InlineOnly
  * @public inline
  
  * ULongArray.
  ```

- **reduce(operation: (acc: ULong, ULong) -> ULong): ULong**
  ```kotlin
  if (isEmpty())
  throw
  
  UnsupportedOperationException("Empty array can't be reduced.")
  
  var accumulator = this[0]
  
  for (index in 1..lastIndex) {
    accumulator = operation(accumulator, this[index])
    return accumulator
  }
  
  return accumulator
  ```

- **reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong**
  ```kotlin
  if (isEmpty())
  throw
  
  UnsupportedOperationException("Empty array can't be reduced.")
  
  var accumulator = this[0]
  
  for (index in 1..lastIndex) {
    accumulator = operation(index, accumulator, this[index])
    return accumulator
  }
  
  return accumulator
  ```

### UByteArray

- **reduce(operation: (acc: UByte, UByte) -> UByte): UByte**
  ```kotlin
  if (isEmpty())
  throw
  
  UnsupportedOperationException("Empty array can't be reduced.")
  
  var accumulator = this[0]
  
  for (index in 1..lastIndex) {
    accumulator = operation(accumulator, this[index])
    return accumulator
  }
  
  return accumulator
  ```

- **reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte**
  ```kotlin
  if (isEmpty())
  throw
  
  UnsupportedOperationException("Empty array can't be reduced.")
  
  var accumulator = this[0]
  
  for (index in 1..lastIndex) {
    accumulator = operation(index, accumulator, this[index])
    return accumulator
  }
  
  return accumulator
  ```

### UShortArray

  ```kotlin
  if (isEmpty())
  throw
  
  UnsupportedOperationException("Empty array can't be reduced.")
  
  var accumulator = this[0]
  
  for (index in 1..lastIndex) {
    accumulator = operation(accumulator, this[index])
    return accumulator
  }
  
  return accumulator
  ```

  ```kotlin
  if (isEmpty())
  throw
  
  UnsupportedOperationException("Empty array can't be reduced.")
  
  var accumulator = this[0]
  
  for (index in 1..lastIndex) {
    accumulator = operation(index, accumulator, this[index])
    return accumulator
  }
  
  return accumulator
  ```
throw UnsupportedOperationException("Empty array can't be reduced.")

var accumulator = this[0]

for (index in 1..lastIndex) {
    accumulator = operation(index, accumulator, this[index])
}

return accumulator

*\n*\n*\n
/*
 * Accumulates value starting with the first element and applying [operation] from left to
right * to current accumulator value and each element with its index in the original array.
* @param [operation] function that takes the index of an element, current accumulator value\n* and the element itself and calculates the next accumulator value.
* @return the accumulator value starting with the first element and applying [operation] from left
right to current accumulator value and each element with its index in the original array.
* @param [operation] function that takes the index of an element, current accumulator value\n* and the element itself and calculates the next accumulator value.
*/

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element. Returns null if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element. Returns null if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element. Returns null if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) -> ULong): ULong? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element. Returns null if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) -> UByte): UByte? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element. Returns null if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the final element and applying [operation] from right to
left to current accumulator value and each element. Returns null if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in lastIndex-1 downTo 0) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the final element and applying [operation] from right to
left to current accumulator value and each element. Returns null if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in lastIndex-1 downTo 0) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the final element and applying [operation] from right to
left to current accumulator value and each element. Returns null if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in lastIndex-1 downTo 0) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with the final element and applying [operation] from right to
left to current accumulator value and each element. Returns null if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in lastIndex-1 downTo 0) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
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while (index >= 0) {
    accumulator = operation(get(index--), accumulator)
}
return accumulator

/**
 * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceRightIndexed(operation: (Int, ULong, acc: ULong) -> ULong): ULong {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceRightIndexed(operation: (Int, UByte, acc: UByte) -> UByte): UByte {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reduceRightIndexed(operation: (Int, UInt, acc: UInt) -> UInt): UInt {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceRightIndexed(operation: (Int, ULong, acc: ULong) -> ULong): ULong {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceRightIndexed(operation: (Int, UByte, acc: UByte) -> UByte): UByte {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
and applying [operation] from right to left to each element with its index in the original array and current accumulator value. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value. @sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = lastIndex
    if (index < 0) throw UnsupportedOperation("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

```kotlin
/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 * @sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

```kotlin
/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<UInt>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```kotlin
/**
 * Returns a list containing successive accumulation values generated by applying [operation] from right to left to each element and current accumulator value.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<UInt>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```kotlin
/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.scan(initial: UShort, operation: (acc: UShort, UInt) -> UShort): List<UInt> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<UInt>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```kotlin
/**
 * Returns a list containing successive accumulation values generated by applying [operation] from right to left to each element and current accumulator value.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.scan(initial: UShort, operation: (acc: UShort, UInt) -> UShort): List<UInt> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<UInt>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```kotlin
/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.scan(initial: UShort, operation: (acc: UShort, UInt) -> UShort): List<UInt> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<UInt>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```kotlin
/**
 * Returns a list containing successive accumulation values generated by applying [operation] from right to left to each element and current accumulator value.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.scan(initial: UShort, operation: (acc: UShort, UInt) -> UShort): List<UInt> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<UInt>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```kotlin
/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample

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        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

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/**
 * Returns a list containing successive accumulation values generated by applying [operation] from right to left to each element and current accumulator value.
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```kotlin
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@ExperimentalUnsignedTypes
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    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<UInt>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```
previous value in resulting list.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
蔺 public inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
蔺 public inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
蔺 public inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
蔺 public inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```
values generated by applying \([operation]\) from left to right \(n\) to each element, its index in the original array and current accumulator value that starts with \([initial]\) value.\(n\) * \(n\) * Note that `acc` value passed to \([operation]\) function should not be mutated;\(n\) otherwise it would affect the previous value in resulting list.\(n\) * \(n\) * @param \([operation]\) function that takes the index of an element, current accumulator value\(n\) and the element itself, and calculates the next accumulator value.\(n\) * \(n\) * @sample samples.collections.Collections.Aggregates.scan

\(^*\text{@SinceKotlin("1.3")}\)\(\text{@ExperimentalStdlibApi}\)\(\text{@ExperimentalUnsignedTypes}\)\(\text{@kotlin.internal.InlineOnl}\)
y\(\text{public inline fun }\)<code>UByteArray.scanIndexed</code>(\(\text{initial: R, operation: (index: Int, acc: R, UByte) -&gt; R): List&lt;R&gt;\)<code>}</code>
\(\text{\{ if (isEmpty()) return list(\text{initial})\} val result = ArrayList&lt;R&gt;(&lt;size + 1&gt;).apply \(\text{\{ add(\text{initial})\} var accumulator = \text{initial} for (index in indices) \{\text{ acc = operation(index, accumulator, this[index])\} \text{result.add(accumulator)}\} \text{ return result}\}}\)/\n\(\text{\} returns a list containing successive accumulation values generated by applying \([operation]\) from left to right \(n\) to each element, its index in the original array and current accumulator value that starts with \([initial]\) value.\(n\) * \(n\) * Note that `acc` value passed to \([operation]\) function should not be mutated;\(n\) * otherwise it would affect the previous value in resulting list.\(n\) * \(n\) * @param \([operation]\) function that takes the index of an element, current accumulator value\(n\) and the element itself, and calculates the next accumulator value.\(n\) * \(n\) * @sample samples.collections.Collections.Aggregates.scanReduce

\(^*\text{@SinceKotlin("1.3")}\)\(\text{@ExperimentalStdlibApi}\)\(\text{@ExperimentalUnsignedTypes}\)\(\text{@kotlin.internal.InlineOnl}\)
y\(\text{public inline fun }\)<code>UShortArray.scanIndexed</code>(\(\text{initial: R, operation: (index: Int, acc: R, UShort) -&gt; R): List&lt;R&gt;\)<code>}</code>
\(\text{\{ if (isEmpty()) return list(\text{initial})\} val result = ArrayList&lt;R&gt;(&lt;size + 1&gt;).apply \(\text{\{ add(\text{initial})\} var accumulator = \text{initial} for (index in indices) \{\text{ acc = operation(index, accumulator, this[index])\} \text{result.add(accumulator)}\} \text{ return result}\}}\)/\n\(\text{\} returns a list containing successive accumulation values generated by applying \([operation]\) from left to right \(n\) to each element and current accumulator value that starts with the first element of this array.\(n\) * \(n\) * Note that `acc` value passed to \([operation]\) function should not be mutated;\(n\) * otherwise it would affect the previous value in resulting list.\(n\) * \(n\) * @param \([operation]\) function that takes current accumulator value and an element, and calculates the next accumulator value.\(n\) * \(n\) * @sample samples.collections.Collections.Aggregates.scanReduce

\(^*\text{@SinceKotlin("1.3")}\)\(\text{@ExperimentalStdlibApi}\)\(\text{@ExperimentalUnsignedTypes}\)\(\text{@kotlin.internal.InlineOnl}\)
y\(\text{public inline fun }\)<code>UIntArray.scanReduce</code>(\(\text{operation: (acc: UInt, UInt) -&gt; UInt): List&lt;UInt&gt;\)<code>}</code>
\(\text{\{ if (isEmpty()) return emptyList()\} var accumulator = this[0] for (index in 1 until size) \{\text{ acc = operation(accumulator, this[index])\} \text{result.add(accumulator)}\} \text{ return result}\}}\)/\n\(\text{\} returns a list containing successive accumulation values generated by applying \([operation]\) from left to right \(n\) to each element and current accumulator value that starts with the first element of this array.\(n\) * \(n\) * Note that `acc` value passed to \([operation]\) function should not be mutated;\(n\) * otherwise it would affect the previous value in resulting list.\(n\) * \(n\) * @param \([operation]\) function that takes current accumulator value and an element, and calculates the next accumulator value.\(n\) * \(n\) * @sample samples.collections.Collections.Aggregates.scanReduce

\(^*\text{@SinceKotlin("1.3")}\)\(\text{@ExperimentalStdlibApi}\)\(\text{@ExperimentalUnsignedTypes}\)\(\text{@kotlin.internal.InlineOnl}\)
y\(\text{public inline fun }\)<code>ULongArray.scanReduce</code>(\(\text{operation: (acc: ULong, ULong) -&gt; ULong): List&lt;ULong&gt;\)<code>}</code>
\(\text{\{ if (isEmpty()) return emptyList()\} var accumulator = this[0] for (index in 1 until size) \{\text{ acc = operation(accumulator, this[index])\} \text{result.add(accumulator)}\} \text{ return result}\}}\)/\n\(\text{\} returns a list containing successive accumulation values generated by applying \([operation]\) from left to right \(n\) to each element and current accumulator value that starts with the first element of this array.\(n\) * \(n\) * Note that `acc` value passed to \([operation]\) function should not be mutated;\(n\) * otherwise it would affect the previous value in resulting list.\(n\) * \(n\) * @param \([operation]\) function that takes current accumulator value and an element, and calculates the next accumulator value.\(n\) * \(n\) * @sample samples.collections.Collections.Aggregates.scanReduce

\(^*\text{@SinceKotlin("1.3")}\)\(\text{@ExperimentalStdlibApi}\)\(\text{@ExperimentalUnsignedTypes}\)\(\text{@kotlin.internal.InlineOnl}\)
y\(\text{public inline fun }\)<code>UByteArray.scanReduce</code>(\(\text{operation: (acc: UByte, UByte) -&gt; UByte): List&lt;UByte&gt;\)<code>}</code>
\(\text{\{ if (isEmpty()) return emptyList()\} var accumulator = this[0] for (index in 1 until size) \{\text{ acc = operation(accumulator, this[index])\} \text{result.add(accumulator)}\} \text{ return result}\}}\)/\n\(\text{\} returns a list containing successive accumulation values generated by applying \([operation]\) from left to right \(n\) to each element and current accumulator value that starts with the first element of this array.\(n\) * \(n\) * Note that `acc` value passed to \([operation]\) function should not be mutated;\(n\) * otherwise it would affect the previous value in resulting list.\(n\) * \(n\) * @param \([operation]\) function that takes current accumulator value and an element, and calculates the next accumulator value.\(n\) * \(n\) * @sample samples.collections.Collections.Aggregates.scanReduce

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add(accumulator) for (index in 1 until size) { accumulator = operation(accumulator, this[index]) result.add(accumulator) return result() * Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element and current accumulator value that starts with the first element of this array.
* Note that ’acc’ value passed to [operation] function should not be mutated;
* otherwise it would affect the previous value in resulting list.
* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
* @sample
samples.collections.Collections.Aggregates.scanReduce

/*@SinceKotlin("1.3")*/
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun UShortArray.scanReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): List<UShort> { result.add(accumulator) for (index in 1 until size) { accumulator = operation(index, accumulator, this[index]) result.add(accumulator) return result() * Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element, its index in the original array and current accumulator value that starts with the first element of this array.
* Note that ’acc’ value passed to [operation] function should not be mutated;
* otherwise it would affect the previous value in resulting list.
* @param [operation] function that takes the index of an element, current accumulator value
* and the element itself, and calculates the next accumulator value.
* @sample
samples.collections.Collections.Aggregates.scanReduce

/*@SinceKotlin("1.3")*/
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun UIntArray.scanReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> { result.add(accumulator) for (index in 1 until size) { accumulator = operation(index, accumulator, this[index]) result.add(accumulator) return result() * Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element, its index in the original array and current accumulator value that starts with the first element of this array.
* Note that ’acc’ value passed to [operation] function should not be mutated;
* otherwise it would affect the previous value in resulting list.
* @param [operation] function that takes the index of an element, current accumulator value
* and the element itself, and calculates the next accumulator value.
* @sample
samples.collections.Collections.Aggregates.scanReduce

/*@SinceKotlin("1.3")*/
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun ULongArray.scanReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> { result.add(accumulator) for (index in 1 until size) { accumulator = operation(index, accumulator, this[index]) result.add(accumulator) return result() * Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element, its index in the original array and current accumulator value that starts with the first element of this array.
* Note that ’acc’ value passed to [operation] function should not be mutated;
* otherwise it would affect the previous value in resulting list.
* @param [operation] function that takes the index of an element, current accumulator value
* and the element itself, and calculates the next accumulator value.
* @sample
samples.collections.Collections.Aggregates.scanReduce

/*@SinceKotlin("1.3")*/
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun UByteArray.scanReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> { result.add(accumulator) for (index in 1 until size) { accumulator = operation(index, accumulator, this[index]) result.add(accumulator) return result() * Returns a list containing successive accumulation values generated by applying [operation] from left to right
* to each element, its index in the original array and current accumulator value that starts with the first element of this array.
* Note that ’acc’ value passed to [operation] function should not be mutated;
* otherwise it would
affect the previous value in resulting list.

```kotlin
/*
 * @param [operation] function that takes an index of an element,
 * current accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly

```
pairs built from the elements of `this` array and the [other] array with the same index.

* The returned list has length of the shortest collection.

* @return A list of pairs built from the elements of `this` array and the [other] array with the same index.

* @param other An array to zip with.

* @throws IllegalArgumentException if the lengths of the two collections are not equal.

* @since 1.3

* @kotlin.internal.InlineOnly

*public infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

*public infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

*public infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

*public infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

*public infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

*public infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

*public infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

*public infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

*public infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

*public infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * @sample samples.collections.Iterables.Operations.zipIterable
*/
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: UShortArray, transform: (a: UShort, b: R) -> V): List<Pair<UShort, R>> { \n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
*/
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UintArray.zip(other: UintArray, transform: (a: Uint, b: R) -> V): List<Pair<Uint, R>> { \n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
*/
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.zip(other: ULongArray, transform: (a: ULong, b: R) -> V): List<Pair<ULong, R>> { \n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * @sample samples.collections.Iterables.Operations.zipIterable
*/
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.zip(other: UByteArray, transform: (a: UByte, b: R) -> V): List<Pair<UByte, R>> { \n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * @sample samples.collections.Iterables.Operations.zipIterable
*/
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.zip(other: UShortArray, transform: (a: UShort, b: R) -> V): List<Pair<UShort, R>> { \n    return zip(other) { t1, t2 -> t1 to t2 }\n}
greater of three values.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
maxOf(a: UByte, b: UByte, c: UByte): UByte {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
minOf(a: UInt, b: UInt): UInt {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
minOf(a: ULong, b: ULong): ULong {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
minOf(a: UByte, b: UByte): UByte {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
minOf(a: UShort, b: UShort): UShort {
    return if (a <= b) a else b
}
```

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* "Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 4585*
greater than the specified [maximumValue].

```kotlin
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULong.coerceAtMost(maximumValue: ULong): ULong {
    return if (this > maximumValue) maximumValue else this
}
```

Ensures that this value is not greater than the specified [maximumValue].

```kotlin
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByte.coerceAtMost(maximumValue: UByte): UByte {
    return if (this > maximumValue) maximumValue else this
}
```

Ensures that this value is not greater than the specified [maximumValue].

```kotlin
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShort.coerceAtMost(maximumValue: UShort): UShort {
    return if (this > maximumValue) maximumValue else this
}
```

Ensures that this value is not greater than the specified [maximumValue].

```kotlin
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}
```

Ensures that this value lies in the specified range [minimumValue..maximumValue].

```kotlin
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}
```

Ensures that this value lies in the specified range [minimumValue..maximumValue].

```kotlin
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {
    if (minimumValue > maximumValue) throw IllegalArgumentExce"
if this value is greater than `range.endInclusive`.

```kotlin
@Sample
samples.comparisons.ComparableOps.coerceInUnsigned

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceIn(range: ClosedRange<UInt>): UInt {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<UInt>(range)
    }
    if (range isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else ->
            this
    }
}

/**
 * Ensures that this value lies in the specified [range].
 * 
 * @return this value if it's within `range.start` and `range.endInclusive`, or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.
 * @Sample samples.comparisons.ComparableOps.coerceInUnsigned

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceIn(range: ClosedRange<ULong>): ULong {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<ULong>(range)
    }
    if (range isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else -> this
    }
}
```

*/

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("USequencesKt")

package kotlin.sequences

import kotlin.random.*

/**
 * Returns the sum of all elements in the sequence.
 * 
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfUInt")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Sequence<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * 
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfULong")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Sequence<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * 
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfUByte")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Sequence<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * 
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfUShort")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Sequence<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

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 * limitations under the License.
 */
iterator over a progression of values of type `Char`. *

* @property step the number by which the value is incremented on each step.

* An iterator over a progression of values of type `Int`. *

* @property step the number by which the value is incremented on each step.

* An iterator over a progression of values of type `Long`. *

* @property step the number by which the value is incremented on each step.

* An iterator over a progression of values of type `Char`. *

* @property step the number by which the value is incremented on each step.

* An iterator over a progression of values of type `Long`. *

* @property step the number by which the value is incremented on each step.

* An iterator over a progression of values of type `Char`. *

* @property step the number by which the value is incremented on each step.
IntProgressionIterator(first, last, step)/** Checks if the progression is empty. */

public open fun

    isEmpty(): Boolean = if (step > 0) first > last else first < last

    override fun equals(other: Any?): Boolean =

        other is IntProgression && (isEmpty() && other.isEmpty() ||
        first == other.first && last == other.last &&
        step == other.step)

    override fun hashCode(): Int =

        if (isEmpty()) -1 else (31 * first + last + step)

    companion object {
        /**
         * Creates IntProgression within the specified bounds of a closed range.
         */
        public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int) = IntProgression(rangeStart, rangeEnd, step)
    }

/**
 * A progression of values of type `Long`. */

public open class LongProgression

    internal constructor

        start: Long,
        endInclusive: Long,
        step: Long

    ) :

        Iterable<Long> {

    init {

        if (step == 0) throw kotlin.IllegalArgumentException("Step must be non-zero.")
        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Long.MIN_VALUE to avoid overflow on negation.")

        * The first element in the progression.

        * The last element in the progression.

        * The step of the progression.

        * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].

        In order to go backwards the [step] must be negative.

        * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.

        * public fun

        fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int) = LongProgression(rangeStart, rangeEnd, step)

        */

    }

/**
 * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.
 */

public object Unit {

    override fun toString() = "kotlin.Unit"
}

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package kotlin

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 */

package org.apache

/**
 * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.
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 */

public object Unit {

    override fun toString() = "kotlin.Unit"
}
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No validation on passed parameters is performed. The given parameters should satisfy the condition:

- either `step > 0` and `start <= end`,
- or `step < 0` and `start >= end`.

No validation on arithmetic progressions is in the range

- in case of a positive step, or from [end] to [start] in case of a negative

```
@PublishedApi
internal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}
```

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```
* @PublishedApi
internal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}
```

* @PublishedApi
internal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

```
package kotlin.reflect

/**
 * Represents a parameter passed to a function or a property getter/setter,
 * including `this` and extension receiver parameters.
 */
public interface KParameter : KAnnotatedElement {
    /**
     * 0-based index of this parameter in the parameter list of its containing callable.
     */
    public val index: Int

    /**
     * Name of this parameter as it was declared in the source code,
     * or `null` if the parameter has no name or its name is not available at runtime.
     */
    public val name: String?

    /**
     * Type of this parameter.
     */
    public val type: KType

    /**
     * Kind of this parameter.
     */
    public val kind: Kind

    /**
     * Kind represents a particular position of the parameter declaration in the source code,
     * such as an instance, an extension receiver parameter or a value parameter.
     */
    public val kind: Kind

    /**
     * Name of this parameter as it was declared in the source code,
     */
    public val name: String?

    /**
     * `true` if this parameter is optional and can be omitted when making a call via [KCallable.callBy],
     * or `false` otherwise.
     */
    public val optional: Boolean

    /**
     * A parameter is optional in any of the two cases:
     * 1. The default value is provided at the declaration of this parameter.
     * 2. The parameter is declared in a member function and one of the corresponding parameters in the super functions is optional.
     */
    public val optional: Boolean
```

```
package kotlin

private fun mod(a: Int, b: Int): Int {
    val mod = a % b
    return if (mod >= 0) mod else mod + b
}

private fun mod(a: Long, b: Long): Long {
    val mod = a % b
    return if (mod >= 0) mod else mod + b
}

private fun differenceModulo(a: Int, b: Int, c: Int): Int {
    return mod(mod(a, c) - mod(b, c), c)
}
```

```
private fun differenceModulo(a: Long, b: Long, c: Long): Long {
    return mod(mod(a, c) - mod(b, c), c)
}
```
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\*/

package kotlin.reflect

/**
 * Represents variance applied to a type parameter on the declaration site (*declaration-site variance*), \* or to a type in a projection (*use-site variance*). \* See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#variance) for more information.\n
\*/

package kotlin.reflect

/**
 * Visibility is an aspect of a Kotlin declaration regulating where that declaration is accessible in the source code. \* Visibility can be changed with one of the following modifiers: `public`, `protected`, `internal`, `private`. \* See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/visibility-modifiers.html) for more information.\n
\*/

@JsName("arrayIterator")
internal fun arrayIterator(array: dynamic, type: String?) = when (type) {
    null -> {
        val arr: Array<dynamic> = array
        object : Iterator<dynamic> {
            var index = 0
            override fun hasNext() = index < arr.size
            override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("$index")
        }
    }
    "BooleanArray" -> booleanArrayIterator(array)
    "ByteArray" -> byteArrayIterator(array)
    "ShortArray" -> shortArrayIterator(array)
    "CharArray" -> charArrayIterator(array)
    "IntArray" -> intArrayIterator(array)
    "LongArray" -> longArrayIterator(array)
    "FloatArray" -> floatArrayIterator(array)
    "DoubleArray" -> doubleArrayIterator(array)
    else -> throw IllegalStateException("Unsupported type argument for arrayIterator: $type")
}

@JsName("booleanArrayIterator")
internal fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextBoolean() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("byteArrayIterator")
internal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextByte() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("shortArrayIterator")
internal fun shortArrayIterator(array: ShortArray) = object : ShortIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextShort() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("charArrayIterator")
internal fun charArrayIterator(array: CharArray) = object : CharIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextChar() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("intArrayIterator")
internal fun intArrayIterator(array: IntArray) = object : IntIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextInt() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}
@InlineOnly

* Returns an instance that encapsulates the given [Throwable] [exception] as failure.

public inline fun <T> failure(exception: Throwable): Result<T> =
    Result(createFailure(exception))

internal class Failure(@JvmField val exception: Throwable) : Serializable {
    override fun equals(other: Any?): Boolean = other is Failure && exception == other.exception
    override fun hashCode(): Int = exception.hashCode()
    override fun toString(): String = "Failure($exception)"
}

/**
 * Creates an instance of internal marker [Result.Failure] class to ensure that this class is not exposed to ABI.
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun createFailure(exception: Throwable): Any =
    Result.Failure(exception)

/**
 * Throws exception if the result is failure. This internal function
 * minimizes inlined bytecode for [getOrThrow] and makes sure that, if the future we can\n * add some exception-augmenting logic here (if needed).
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun Result<*>.throwOnFailure() {
    if (value is Result.Failure) throw value.exception
}

/**
 * Calls the specified function [block] and returns its encapsulated result if invocation was successful,\n * catching any [Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R> runCatching(block: () -> R): Result<R> {
    return try {
        Result.success(block())
    } catch (e: Throwable) {
        Result.failure(e)
    }
}

/**
 * Calls the specified function [block] with `this` value as its receiver and returns its encapsulated result if invocation
 * was successful,\n * catching any [Throwable] exception that was thrown from the [block] function execution and
 * encapsulating it as a failure.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {
    return try {
        Result.success(block())
    } catch (e: Throwable) {
        Result.failure(e)
    }
}

// -- extensions ---

/**
 * Returns the encapsulated value if this instance represents [success] or throws the encapsulated [Throwable] exception
 * if it is [failure] and [的结果] is [Result.isSuccess] or the\n * result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure] and [result].
 * Note, that this function rethrows any [Throwable] exception thrown by [onFailure] function.\n * This function is a shorthand for `getOrElse { throw it }` (see [getOrElse]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R> Result<T>.getOrThrow(): T {
    throwOnFailure()
    return value as T
}

/**
 * Returns the encapsulated value if this instance represents [success] or the
 * value of [defaultValue] if it is [failure].
 * This function is a shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see
 * [fold]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.getOrDefault(defaultValue: R): R {
    if (isFailure) return defaultValue
    return value as T
}

/**
 * Returns the result of [onSuccess] for the encapsulated value if this instance represents [success] or the
 * result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure].
 * Note, that this function rethrows any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.fold(onSuccess: (value: R) -> R, onFailure: (exception: Throwable) -> R): Result<R> {
    return try {
        Result.success(onSuccess(value))
    } catch (e: Throwable) {
        Result.failure(e)
    }
}

// transformation

/**
 * Returns the encapsulated result of the given [transform] function applied to the encapsulated value
 * if this instance represents [success] or the\n * result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure].
 * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n * See [mapCatching] for an alternative that encapsulates exceptions.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.transform(transform: (value: R) -> R): Result<R> {
    return try {
        Result.success(transform(value))
    } catch (e: Throwable) {
        Result.failure(e)
    }
}
Result<T>.map(transform: (value: T) -> R): Result<R> {
    contract {
        callsInPlace(transform,
        InvocationKind.AT_MOST_ONCE)
    }\n    return when {
        isSuccess -> Result.success(transform(value as T))\n        else -> Result(value)\n    }\n}

/**
 * Returns the encapsulated result of the given [transform] function applied to the encapsulated value
 * if this instance represents [success][Result.isSuccess] or the
 * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n * This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n * See [map] for an alternative that rethrows exceptions from `transform` function.\n */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {
    contract {
        callsInPlace(transform, InvocationKind.AT_MOST_ONCE)
    }\n    return when {
        isSuccess -> runCatching { transform(value as T) }\n        else -> Result(value)\n    }\n}

/**
 * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception
 * if this instance represents [failure][Result.isFailure] or the
 * original encapsulated value if it is [success][Result.isSuccess].\n * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {
    contract {
        callsInPlace(transform, InvocationKind.AT_MOST_ONCE)
    }\n    return when (val exception = exceptionOrNull()) {
        null -> this\n        else -> Result.success(transform(exception))\n    }\n}

/**
 * Performs the given [action] on the encapsulated [Throwable] exception if this instance represents
 * [failure][Result.isFailure].\n * Returns the original `Result` unchanged.\n */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Continuation<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {
    contract {
        callsInPlace(action, InvocationKind.AT_MOST_ONCE)
    }\n    exceptionOrNull()?.let { action(it) }\n    return this\n}

/**
 * Performs the given [action] on the encapsulated value if this instance represents [success][Result.isSuccess].\n * Returns the original `Result` unchanged.\n */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Continuation<T>.onSuccess(action: (value: T) -> Unit): Result<T> {
    contract {
        callsInPlace(action, InvocationKind.AT_MOST_ONCE)
    }\n    if (isSuccess) action(value as T)\n    return this\n}

// -------------------

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 */

package kotlin.coroutines

import kotlin.coroutines.intrinsics.*
import kotlin.internal.InlineOnly

/**
 * Interface representing a continuation after
 * a suspension point that returns a value of type `T`.
 */
@SinceKotlin("1.3")
public interface Continuation<in T> {
    /**
     * The context of the coroutine that corresponds to this continuation.
     */
    public val context: CoroutineContext

    /**
     * Resumes the execution of the corresponding coroutine passing a successful or
     * failed [result] as the
     * return value of the last suspension point.\n     * \n     * Classes and interfaces marked with this annotation are restricted when used as receivers
     * for extension `suspend` functions. These `suspend` extensions can only invoke other member or extension
     * `suspend` functions on this particular\n     * receiver and are restricted from calling arbitrary suspension functions.\n     */
    \n    public fun resumeWith(result: Result<T>): Result<T>\n}

// "peek" onto value/exception and pipe

/**
 * Performs the given [action] on the encapsulated [Throwable] exception if this instance represents
 * [failure][Result.isFailure].\n */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Continuation<T>.resume(value: T): Unit =
    resumeWith(Result.success(value))

/**
 * Performs the given [action] on the
 * encapsulated result of the corresponding coroutine passing a successful or
 * failed [result] as the
 * return value of the last suspension point.\n * \n * Classes and interfaces marked with this annotation are restricted when used as receivers
 * for extension `suspend` functions. These `suspend` extensions can only invoke other member or extension
 * `suspend` functions on this particular receiver and are restricted from calling arbitrary suspension functions.\n */
@SinceKotlin("1.3")
public interface Continuation<in T> {
    /**
     * The context of the coroutine that corresponds to this continuation.
     */
    public val context: CoroutineContext

    /**
     * Resumes the execution of the corresponding coroutine passing a successful or
     * failed [result] as the
     * return value of the last suspension point.\n     */
    public fun resumeWith(result: Result<T>): Result<T>\n}

// Open Source Used in Cisco Nexus Dashboard Fabric Controller 12.0(1) 4603
[COROUTINE_SUSPENDED] if it suspends. In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.

* This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

* The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established.

* In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.

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Continuation<Unit> =
    // Kotlin/JS suspend lambdas have an extra parameter `suspended`
    if (this.asDynamic().length == 3) {
        // When `suspended` is true the continuation is created, but not executed
        this.asDynamic()(receiver, completion, true)
    } else {
        createCoroutineFromSuspendFunction(completion)
    }

/**
 * Intercepts this continuation with [ContinuationInterceptor].
 * This function shall be used on the immediate result of
 * [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn].
 * If this function is invoked on other [Continuation] instances it returns `this` continuation unchanged.
 * @native
 * @kernel
 * @library
 * @since 1.3
 */
public actual fun <T> Continuation<T>.intercepted(): Continuation<T> =
    (this as? CoroutineImpl)?.intercepted() ?:
    this

private inline fun <T> createCoroutineFromSuspendFunction(
    completion: Continuation<T>,
    crossinline block: () -> Any?
): Continuation<Unit> {
    @Suppress("UNCHECKED_CAST")
    return object
        : CoroutineImpl(completion as Continuation<Any?>) {
            override fun doResume(): Any? {
                exception?.let { throw it }
                return block()
            }
        }
}

@file:Suppress("UNUSED_PARAMETER")

package kotlin.js

@kotlin.internal.InlineOnly
internal inline fun jsDeleteProperty(obj: Any, property: Any) {
    js("delete obj[property]")
}

@kotlin.internal.InlineOnly
internal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =
    js("lhs | rhs").unsafeCast<Int>()
Opening the file as a text file, the content is as follows:

```kotlin
/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UIntArray.asList(): List<UInt> {
    return object : AbstractList<UInt>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UInt): Boolean = this@asList.contains(element)
        override fun get(index: Int): UInt {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: UInt): Int {
            if ((element as Any?) !is UInt) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: UInt): Int {
            if ((element as Any?) !is UInt) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun ULongArray.asList(): List<ULong> {
    return object : AbstractList<ULong>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: ULong): Boolean = this@asList.contains(element)
        override fun get(index: Int): ULong {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: ULong): Int {
            if ((element as Any?) !is ULong) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: ULong): Int {
            if ((element as Any?) !is ULong) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UByteArray.asList(): List<UByte> {
    return object : AbstractList<UByte>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UByte): Boolean = this@asList.contains(element)
        override fun get(index: Int): UByte {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: UByte): Int {
            if ((element as Any?) !is UByte) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: UByte): Int {
            if ((element as Any?) !is UByte) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UShortArray.asList(): List<UShort> {
    return object : AbstractList<UShort>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UShort): Boolean = this@asList.contains(element)
        override fun get(index: Int): UShort {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: UShort): Int {
            if ((element as Any?) !is UShort) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: UShort): Int {
            if ((element as Any?) !is UShort) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

@file: Suppress("DEPRECATION")
```

The page contains code related to abstract classes and concrete implementations of those classes. The code snippet includes the implementation of the `getAsList` function for different array types, such as `UIntArray`, `ULongArray`, `UByteArray`, and `UShortArray`. The `getAsList` function returns a `List` that wraps the original array, and the implementation includes methods for checking the index, properties like size, and various utilities for retrieving elements or finding the index of a specific element. The code also includes deprecation warnings to inform developers that the usage of these functions may change in future versions of the library.
override fun get(index: Int): E {
    AbstractList.checkElementIndex(index, _size)\n    return list[fromIndex + index]\n}\n
override fun removeAt(index: Int): E {
    AbstractList.checkElementIndex(index, _size)\n    val result = list.removeAt(fromIndex + index)\n    _size--\n    return result\n}\n
override fun set(index: Int, element: E): E {
    AbstractList.checkElementIndex(index, _size)\n    return list.set(fromIndex + index, element)\n}\n
override val size: Int get() = _size\n
override fun hashCode(): Int {
    return AbstractList.orderedHashCode(this)\n}

override fun equals(other: Any?): Boolean {
    return other !== this \n    if (this === other) return true\n    if (other !is Collection<*>) return false\n
    override fun contains(element: E): Boolean = containsValue(element)\n
    override fun iterator(): AbstractList.MutableIterator<E> {
        val entryIterator = entries.iterator()\n        return object : AbstractList.MutableIterator<E> {
            override fun hasNext(): Boolean = entryIterator.hasNext()\n            override fun next(): E = entryIterator.next()\n
            override fun remove() = entryIterator.remove()\n        }\n    }\n
    override fun add(index: Int, element: E): Boolean = throw UnsupportedOperationException("Add is not supported")

    override fun removeAt(index: Int): E {
        AbstractList.checkElementIndex(index, _size)\n        return list.removeAt(fromIndex + index)\n    }\n
    override fun addAll(from: Collection<? super E>) {\n        for (element in from) add(element)\n    }\n
    override fun clear() {
        entries.clear()\n        _size = 0\n        _values = null\n    }\n
    override fun containsValue(element: E): Boolean {
        return list.contains(element)\n    }\n
    override fun removeValue(element: E): Boolean {
        return list.remove(element)\n    }\n
    override fun containsKey(element: K): Boolean {
        return list.contains(element)\n    }\n
    override fun removeKey(element: K): Boolean {
        return list.remove(element)\n    }\n
    override fun get(index: Int): E {
        AbstractList.checkElementIndex(index, _size)\n        return list[index]\n    }\n
    override fun containsKey(key: K): Boolean {
        return list.containsKey(key)\n    }\n
    override fun containsValue(value: V): Boolean {
        return list.containsValue(value)\n    }\n
    override fun removeValue(value: V): Boolean {
        return list.removeValue(value)\n    }\n
    override fun containsKey(equals: (K) -> Boolean): Boolean {
        return contains(equals)\n    }\n
    override fun containsValue(equals: (V) -> Boolean): Boolean {
        return contains(equals)\n    }\n
    override fun keySet(): AbstractSet<K> = throw UnsupportedOperationException("Key not supported")

    override fun values(): AbstractList<V> = throw UnsupportedOperationException("Values not supported")

    override fun entrySet(): AbstractMap.EntrySet<K, V> = throw UnsupportedOperationException("Entry set not supported")

    override fun iterator(): Iterator<Map.Entry<K, V>> = throw UnsupportedOperationException("Iterator not supported")

    override fun remove(key: K): V? {
        val iter = entries.iterator()\n        while (iter.hasNext()) {
            val entry = iter.next()\n            if (entry.key == key) {
                return entry.value\n            }
        }
        return _values!!\n    }
```kotlin
override fun toArray(): Array<Any?> = js("[]").slice.call(array)

private fun rangeCheck(index: Int) = index.apply {
    AbstractList.checkElementIndex(index, size)
}

private fun insertionRangeCheck(index: Int) = index.apply {
    AbstractList.checkPositionIndex(index, size)
}

package kotlin.collections

internal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {
    if (getStableSortingIsSupported()) {
        array.asDynamic().sort(comparison)
    } else {
        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))
    }
}

internal fun <T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {
    if (getStableSortingIsSupported()) {
        val comparison = { a: T, b: T -> comparator.compare(a, b) }
        array.asDynamic().sort(comparison)
    } else {
        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)
    }
}

internal fun <T : Comparable<T>> sortArray(array: Array<out T>) {
    if (getStableSortingIsSupported()) {
        val comparison = { a: T, b: T -> a.compareTo(b) }
        array.asDynamic().sort(comparison)
    } else {
        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())
    }
}

private var _stableSortingIsSupported: Boolean? = null
private fun getStableSortingIsSupported(): Boolean {
    _stableSortingIsSupported?.let { return it }
    _stableSortingIsSupported = false
    val array = js("[]").unsafeCast<Array<Int>()
    // known implementations may use stable sort for arrays of up to 512 elements
    // so we create slightly more elements to test stability
    for (index in 0 until 600)
        array.asDynamic().push(index)
    val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }
    array.asDynamic().sort(comparison)
    for (index in 1 until array.size) {
        val a = array[index - 1]
        val b = array[index]
        if ((a and 3) == (b and 3) && a >= b) return false
    }
    _stableSortingIsSupported = true
    return true
}

private fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator: Comparator<in T>): Array<T> {
    val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()
    val result = mergeSort(array, buffer, start, endInclusive, comparator)
    if (result !== array) {
        result.forEachIndexed { i, v -> array[i] = v }
    }
}

// Both start and end are inclusive indices.
    if (start == end) {
        return array
    }
    val median = (start + end) / 2
    val left = mergeSort(array, buffer, start, median, comparator)
    val right = mergeSort(array, buffer, median + 1, end, comparator)
    val target = if (left == buffer) array else buffer
    // Merge.
    var leftIndex = start
    var rightIndex = median + 1
    for (i in start..end) {
        when {
            leftIndex <= median && rightIndex <= end -> {
                target[i] = right[rightIndex++]
            }
            leftIndex <= median -> {
                target[i] = left[leftIndex++]
            }
            else/* rightIndex <= end */ -> {
                target[i] = right[rightIndex++]
            }
        }
    }
    return target
}

package kotlin.collections

@UseExperimental(ExperimentalUnsignedTypes::class)
@SinceKotlin("1.3")
@kotlin.js.JsName("contentDeepHashCodeImpl")
internal fun <T> Array<out T>.contentDeepHashCodeImpl(): Int {
    var result = 1
    for (element in this) {
        val elementHash = when {
            element == null -> 0
            isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()
            else -> element.hashCode()
        }
        result = 31 * result + elementHash
    }
    return result
}
```

This code is used in the Apache 2.0 license that can be found in the license/LICENSE.txt file.
abstract fun equals(value1: Any?, value2: Any?): Boolean

    /**
     * Subclasses must override to return the hash code of a given key.
     */
    abstract fun getHashCode(value: Any?): Int


    object HashCode :
        EqualityComparator {
            override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2
            override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0
        }
    }
}
MutableSet] interface, backed by a [HashMap] instance.

 */
public actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {
    private val map: HashMap<E, Any>

    /**
     * Constructs a new empty [HashSet].
     */
    actual constructor() {
        map = HashMap<E, Any>()
    }

    /**
     * Constructs a new [HashSet] filled with the elements of the specified collection.
     */
    actual constructor(elements: Collection<E>) {
        map = HashMap<E, Any>(elements.size)
        addAll(elements)
    }

    /**
     * Constructs a new empty [HashSet].
     */
    actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) {
        map = HashMap<E, Any>(initialCapacity, loadFactor)
    }

    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)

    internal constructor(map: HashMap<E, Any>) {
        this.map = map
    }

    actual override fun add(element: E): Boolean {
        val old = map.put(element, this)
        return old == null
    }

    actual override fun clear() {
        map.clear()
    }

    actual override operator fun contains(element: E): Boolean = map.containsKey(element)

    actual override fun isEmpty(): Boolean = map.isEmpty()

    actual override fun iterator(): MutableIterator<E> = map.keys.iterator()

    actual override fun remove(element: E): Boolean = map.remove(element) != null

    actual override val size: Int get() = map.size
}

/**
 * Creates a new instance of the specialized implementation of [HashSet] with the specified [String] elements,
 * which elements the keys as properties of JS object without hashing them.
 */
public fun stringSetOf(vararg elements: String): HashSet<String> {
    return HashSet(stringMapOf<Any>()).apply { addAll(elements) }
}
chain.asDynamic().length = 0 // remove the whole array
jsDeleteProperty(backingMap, hashCode) else { entry.value } // splice out the entry we're removing
chain.asDynamic().splice(index, 1) // remove
structureChanged(host) return entry.value.size = 0 // remove the whole array
override fun clear() { backingMap = createJsMap() size = 0 // remove the whole array
override fun contains(key: K): Boolean = getEntry(key) != null // remove
override fun get(key: K): V? = getEntry(key)?.value private fun getEntry(key: K): MutableEntry<K, V>? { val chainOrEntry = getChainOrNull(entry.key) ?: return null if (chainOrEntry !is Array<*>) { val entry: MutableEntry<K, V> = chainOrEntry if (equality.equals(entry.key, key)) { val return entry } else { val return null } } else { val chain: Array<MutableEntry<K, V>> = chainOrEntry private fun function iterator(): MutableIterator<MutableEntry<K, V>> {
    val keys: Array<String> = js("Object").keys(backingMap)
    return object : MutableIterator<MutableEntry<K, V>> {
        var state = -1 // -1 not ready, 0 - ready, 1 - done
        var chainOrEntry: dynamic = null
        var isChain = false
        var itemIndex = 0
        var lastEntry: MutableEntry<K, V>? = null

        private fun computeNext(): Int {
            if (chainOrEntry != null && isChain) {
                val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size
                if (++itemIndex < chainSize)
                    return 0
            }
            if (++keyIndex < keys.size) {
                chainOrEntry = backingMap[keys[keyIndex]]
                isChain = chainOrEntry is Array<*>
                itemIndex = 0
                return 0
            } else {
                chainOrEntry = null
                return 1
            }
        }

        override fun hasNext(): Boolean {
            if (state == -1)
                state = computeNext()
            return state == 0
        }

        override fun next(): MutableEntry<K, V> {
            if (!hasNext()) throw NoSuchElementException()
            val lastEntry = if (isChain) {
                chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]
            } else {
                chainOrEntry.unsafeCast<MutableEntry<K, V>>()
            }
            this.lastEntry = lastEntry
            state = -1
            return lastEntry
        }

        override fun remove() {
            checkNotNull(lastEntry)
            this@InternalHashCodeMap.remove(lastEntry!!)
            lastEntry = null // the chain being iterated just got modified by InternalHashCodeMap.remove
            itemIndex-
            override fun hasNextNext(): Boolean { if (state == -1) return true
            state = computeNext() return state == 0
            override fun nextNext(): MutableListEntry<K, V> { if (!hasNextNext()) throw NoSuchElementException() return MutableListEntry<K, V>()
            }
            if (isChain) {
                val chainOrEntry = backingMap[keys[chainIndex]]
                return if (chainOrEntry !== undefined) null else chainOrEntry
            }
            val chainOrEntry = backingMap[keys[chainSize]]
            return if (chainOrEntry === undefined) null else chainOrEntry
        }
    }

    private fun getChainOrNull(hashCode: Int): dynamic {
        val chainOrEntry = backingMap[hashCode]
        return if (chainOrEntry !== undefined)
            chainOrEntry
        else
            null
    }

    override fun iterator(): MutableIterator<MutableEntry<K, V>> {
        return object : MutableIterator<MutableEntry<K, V>> {
            var state = -1 // -1 not ready, 0 - ready, 1 - done
            var chainOrEntry: dynamic = null
            var isChain = false
            var itemIndex = -1
            var lastEntry: MutableEntry<K, V>? = null

            private fun computeNext(): Int {
                if (chainOrEntry != null && isChain) {
                    val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size
                    if (++itemIndex < chainSize)
                        return 0
                }
                if (++keyIndex < keys.size) {
                    chainOrEntry = backingMap[keys[keyIndex]]
                    isChain = chainOrEntry is Array<*>
                    itemIndex = 0
                    return 0
                } else {
                    chainOrEntry = null
                    return 1
                }
            }

            override fun hasNext(): Boolean {
                if (state == -1)
                    state = computeNext()
                return state == 0
            }

            override fun next(): MutableEntry<K, V> {
                if (!hasNext()) throw NoSuchElementException()
                val lastEntry = if (isChain) {
                    chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]
                } else {
                    chainOrEntry.unsafeCast<MutableEntry<K, V>>()
                }
                this.lastEntry = lastEntry
                state = -1
                return lastEntry
            }

            override fun remove() {
                checkNotNull(lastEntry)
                this@InternalHashCodeMap.remove(lastEntry!!)
                lastEntry = null // the chain being iterated just got modified by InternalHashCodeMap.remove
                itemIndex-
                private fun getChainOrNull(hashCode: Int): dynamic {
                    val chainOrEntry = backingMap[hashCode]
                    return if (chainOrEntry !== undefined) null else chainOrEntry
                }

                // A mod
count to track 'value' replacements in map to ensure that the 'value' that we have in the
* iterator entry is
guaranteed to be still correct.
* This is to optimize for the common scenario where the values are not modified
during
* iterations where the entries are never stale.
* */
val oldValue = backingMap[key]!!
        val value = backingMap[key]!!
        if (value !== undefined) {
            return value.unsafeCast<V>()
        } else {
            return null
        }
    }

    override fun remove(key: K): V? {
        if (key !is String) return null
        val value = backingMap[key]
        if (value !== undefined) {
            jsDeleteProperty(backingMap, key)
            size--
            // structureChanged(host)
            return value.unsafeCast<V>()
        } else {
            // valueMod++
            return null
        }
    }

    override fun clear() {
        backingMap = createJsMap()
        size = 0
    }

    override fun iterator(): MutableIterator<MutableEntry<K, V>> {
        return object :
            MutableListCollectionIterator<MutableEntry<K, V>> {
                private val keys = js("Object").keys(backingMap)
                private var lastKey: String? = null

                override fun hasNext(): Boolean = keys.iterator().hasNext()

                override fun next(): MutableListCollectionIterator<Entry<K, V>> {
                    val key = keys.next()
                    lastKey = key
                    // @Suppress("UNCHECKED_CAST")
                    return newMapEntry(key as K)
                }

                override fun remove() {
                    // @Suppress("UNCHECKED_CAST")
                    this@InternalStringMap.remove(checkNotNull(lastKey) as K)
                }
            }
    }

    private fun newMapEntry(key: K): MutableListCollectionIterator<Entry<K, V>> = object : MutableListEntryIterator<K, V> {
        override val key: K get() = key
        override val value: V get() = this@InternalStringMap[fetchKeyId(key)]?.unsafeCast<V>()

        override fun setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()

        override fun hashCode(): Int = AbstractMap.entryHashCode(this)
        override fun toString(): String = AbstractMap.entryToString(this)
        override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this, other)
    }
}

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 *
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
/*
 * Based on GWT LinkedHashMap
 * Copyright 2008 Google Inc.
 */
package
import kotlin.collections.MutableMap.MutableEntry

/**
 * Hash table based
 * implementation of the 
 * interface, which additionally preserves the insertion order
 * of entries during
 * the insertion operation.
 */
public actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {

    /**
     * The
     * interface, which additionally preserves the insertion order
     * of entries during
     * the insertion operation.
     */
    private class
        ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {
            internal var
                next: ChainEntry<K, V>? = null
                prev: ChainEntry<K, V>? = null
        }

        private inner class
            EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {

                private inner class
                    EntryIterator :
                        MutableListIterator<MutableEntry<K, V>> {
                            // The next entry that was returned from this iterator.
                            private var last: ChainEntry<K, V>? = null
                            // The next entry to return from this iterator.
                            private var next: ChainEntry<K, V>? = null
                            init {
                                next = head
                                recordLastKnownStructure(map, this)
                            }

                            override fun hasNext(): Boolean {
                                return next !== null
                            }

                            override fun next(): MutableListIterator<Entry<K, V>> {
                                return checkStructuralChange(map, this)
                                    if (!hasNext()) throw NoSuchElementException()
                                    // val
openStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {
    return LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }
} /*
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 */

package kotlin.collections

/**
 * The implementation of the [MutableSet]
 * interface, backed by a [LinkedHashSet] instance.
 * This implementation preserves the insertion order of elements during the iteration.
 */
@public actual open class LinkedHashSet<E> : HashSet<E>, MutableSet<E>
{
    internal constructor(map: LinkedHashMap<E, Any>) : super(map)

    /**
     * Constructs a new empty [LinkedHashSet].
     */
    actual constructor() : super(LinkedHashMap<E, Any>())

    /**
     * Constructs a new empty [LinkedHashSet].
     * @param initialCapacity the initial capacity (ignored)
     * @param loadFactor the load factor (ignored)
     */
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))

    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)

    public override fun clone(): Any {
        return LinkedHashSet(this)
    }

    /**
     * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified [String] elements.
     */
    public fun linkedStringSetOf(vararg elements: String): LinkedHashMap<String, Any> {
        return LinkedHashMap<String, Any>(stringMapOf<Any>()).apply { addAll(elements) }
    }

    actual constructor(map: LinkedHashMap<String, Any>) : super(map)

    /**
     * The implementation of the [MutableSet]
     * interface, backed by a [LinkedHashSet] instance.
     * This implementation preserves the insertion order of elements during the iteration.
     */
    @public actual open class LinkedHashSet<K, V> : HashSet<K, V>, MutableMap<K, V> {
        internal constructor(map: LinkedHashMap<K, Any>) : super(map)

        /**
         * The implementation of the [MutableMap]
         * interface, backed by a [LinkedHashMap] instance.
         * This implementation preserves the insertion order of elements during the iteration.
         */
    }

    public override fun clone(): Any {
        return LinkedHashSet(this)
    }

    /**
     * The implementation of the [MutableSet]
     * interface, backed by a [LinkedHashSet] instance.
     * This implementation preserves the insertion order of elements during the iteration.
     */
    @public actual open class LinkedHashSet<E> : HashSet<E>, MutableSet<E> {
        internal constructor(map: LinkedHashMap<E, Any>) : super(map)

        /**
         * The implementation of the [MutableSet]
         * interface, backed by a [LinkedHashSet] instance.
         * This implementation preserves the insertion order of elements during the iteration.
         */
    }

    public override fun clone(): Any {
        return LinkedHashSet(this)
    }

    /**
     * The implementation of the [MutableSet]
     * interface, backed by a [LinkedHashSet] instance.
     * This implementation preserves the insertion order of elements during the iteration.
     */
} /*
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 */

package kotlin

import kotlin.contracts.*


@Deprecated("Do not use Synchronized annotation in pure Kotlin/JS code", level = DeprecationLevel.ERROR)
public typealias Synchronized = kotlin.jvm.Synchronized

@Deprecated("Do not use Volatile annotation in pure Kotlin/JS code", level = DeprecationLevel.ERROR)
public typealias Volatile = kotlin.jvm.Volatile

@kotlin.internal.InlineOnly
public actual inline fun <R> synchronized(lock: Any, block: () -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block()
}

/**
 * The implementation of the [MutableSet]
 * interface, backed by a [LinkedHashSet] instance.
 * This implementation preserves the insertion order of elements during the iteration.
 */
@public actual open class LinkedHashSet<K, V> : HashSet<K, V>, MutableMap<K, V> {
        internal constructor(map: LinkedHashMap<K, Any>) : super(map)

    /**
     * The implementation of the [MutableMap]
     * interface, backed by a [LinkedHashMap] instance.
     * This implementation preserves the insertion order of elements during the iteration.
     */
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<K, Any>(initialCapacity, loadFactor))

    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)

    public override fun clone(): Any {
        return LinkedHashSet(this)
    }

    /**
     * The implementation of the [MutableSet]
     * interface, backed by a [LinkedHashSet] instance.
     * This implementation preserves the insertion order of elements during the iteration.
     */
    public override fun clone(): Any {
        return LinkedHashSet(this)
    }

    /**
     * The implementation of the [MutableSet]
     * interface, backed by a [LinkedHashSet] instance.
     * This implementation preserves the insertion order of elements during the iteration.
     */
} /*
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 */

package kotlin.io

internal abstract class BaseOutput {
    open fun println() {
        print("\n")
    }

    open fun println(message: Any?) {
        print(message)
        println()
    }

    abstract fun print(message: Any?)

    open fun flush() {}
}

/**
 * The implementation of the [MutableSet]
 * interface, backed by a [LinkedHashSet] instance.
 * This implementation preserves the insertion order of elements during the iteration.
 */
@JsName("NodeJsOutput")
internal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {
    override fun print(message: Any?) {
        // TODO: Using local variable because of bug in block decomposition lowering in IR backend
        val messageString = String(message)
        outputStream.write(messageString)
    }

    override fun println(message: Any?) {
        console.log(message)
    }

    override fun println() {
        console.log("")
    }
}

/**
 * The implementation of the [MutableSet]
 * interface, backed by a [LinkedHashSet] instance.
 * This implementation preserves the insertion order of elements during the iteration.
 */
@JsName("OutputToConsoleLog")
internal class OutputToConsoleLog : BaseOutput() {
    override fun print(message: Any?) {
        var s = String(message)
        val i = s.nativeLastIndexOf("\n", 0)
        if (i >= 0) {
            println(s.substring(0, i))
            s = s.substring(i + 1)
        }
        println(s)
    }

    override fun println() {
        console.log("")
    }
}

/**
 * The implementation of the [MutableSet]
 * interface, backed by a [LinkedHashSet] instance.
 * This implementation preserves the insertion order of elements during the iteration.
 */
@JsName("BufferedOutput")
internal open class BufferedOutput : BaseOutput() {
    var buffer = ""

    override fun print(message: Any?) {
        buffer += String(message)
    }

    override fun flush() {
        buffer = ""
    }
}

/**
 * The implementation of the [MutableSet]
 * interface, backed by a [LinkedHashSet] instance.
 * This implementation preserves the insertion order of elements during the iteration.
 */
@JsName("BufferedOutputToConsoleLog")
internal class BufferedOutputToConsoleLog : BufferedOutput() {
    override fun print(message: Any?) {
        var buffer = ""
        println(message)
        buffer += String(message)
    }

    override fun println(message: Any?) {
        println(message)
        println(
    }

    /**
     * The implementation of the [MutableSet]
     * interface, backed by a [LinkedHashSet] instance.
     * This implementation preserves the insertion order of elements during the iteration.
     */
}
@JsName("output")
internal var output = run { val isNode: Boolean = js("typeof process !== 'undefined'
& & process.versions & & !process.versions.node")
if (isNode) NodeJsOutput(js("process.stdout")) else
BufferedOutputToConsoleLog("")

/**
 * Prints the line separator to the standard output stream.
 */
public actual fun println() { output.println() }

/**
 * Prints the given [message] and the line separator to the standard output stream.
 */
public actual fun println(message: Any?) { output.println(message) }

/**
 * Prints the given [message] to the standard output stream.
 */
public actual fun print(message: Any?) { output.print(message) }

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 */

package kotlin.coroutines

import kotlin.coroutines.intrinsics.CoroutineSingletons.*
import kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED

@PublishedApi
@SinceKotlin("1.3")
internal actual class SafeContinuation<in T>
internal actual constructor(
    private val delegate: Continuation<T>,
    initialResult: Any?
) : Continuation<T> {
    @PublishedApi
    internal actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)

    public actual override val context: CoroutineContext
        get() = delegate.context

    private var result: Any? = initialResult

    public actual override fun resumeWith(result: Result<T>) {
        val cur = this.result
        when {
            cur === UNDECIDED -> {
                this.result = result.value
            }
            cur === COROUTINE_SUSPENDED -> {
                this.result = RESUMED
                delegate.resumeWith(result)
            }
            else -> throw IllegalStateException("Already resumed")
        }
    }

    @PublishedApi
    internal actual fun getOrThrow(): Any? {
        if (result === UNDECIDED) {
            result = COROUTINE_SUSPENDED
            return COROUTINE_SUSPENDED
        }
        val result = this.result
        return when {
            result === RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED upstream
            result is Result.Failure -> throw result.exception
            else -> result
        }
    }
}

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 */

package kotlin.js

/**
 * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.
 */
@Suppress("NOT_DOCUMENTED")
public external class Date() {
    public constructor(milliseconds: Number)

    public constructor(dateString: String)

    public constructor(year: Int, month: Int)

    public constructor(year: Int, month: Int, day: Int)

    public constructor(year: Int, month: Int, day: Int, hour: Int)

    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)

    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)

    public fun getDate(): Int

    public fun getDay(): Int

    public fun getFullYear(): Int

    public fun getHours(): Int

    public fun getMilliseconds(): Int

    public fun getMinutes(): Int

    public fun getMonth(): Int

    public fun getSeconds(): Int

    public fun getTime(): Double

    public fun getTimezoneOffset(): Int

    public fun getUTCDate(): Int

    public fun getUTCDay(): Int

    public fun getUTCMilliseconds(): Int

    public fun getUTCMinutes(): Int

    public fun getUTCMilliseconds(): Int

    public fun getUTCSeconds(): Int

    public fun getYear(): Int

    public fun toDateString(): String

    public fun toISOString(): String

    public fun toJSON(): Json

    public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String

    public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String

    private fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String
}
regular expression [Regex] with the specified set of [options].

* @kotlin.internal.InlineOnly

public inline fun String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)

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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin.text

/**
 * A mutable sequence of characters.
 *
 * String builder can be used to efficiently perform
 * multiple string manipulation operations.
 */

expect class StringBuilder : Appendable, CharSequence {
    /**
     * Constructs an empty string builder.
     */
    constructor()

    /**
     * Constructs an empty string builder with the
     * specified initial [capacity].
     */
    constructor(capacity: Int)

    /**
     * Constructs a string builder that contains the
     * same characters as the specified [content] char sequence.
     */
    constructor(content: CharSequence)

    /**
     * Constructs a string builder that contains the same characters as the specified [content] string.
     */
    @SinceKotlin("1.3")
    constructor(content: String)

    override val length:

    override operator fun get(index: Int): Char

    override fun subSequence(startIndex: Int, endIndex: Int): CharSequence

    override fun append(value: Char): StringBuilder
    override fun append(value: CharSequence?): StringBuilder
    override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder

    /**
     * Reverses the contents of this string builder and returns this instance.
     */
    fun reverse(): StringBuilder

    /**
     * Appends the string representation of the specified object [value] to this string builder
     * and returns this instance.
     */
    fun append(value: Any?): StringBuilder

    /**
     * Appends the string representation of the specified boolean [value] to this string builder
     * and returns this instance.
     */
    fun append(value: Boolean): StringBuilder

    /**
     * Appends characters in the specified character array [value] to this string builder
     * and returns this instance.
     */
    @SinceKotlin("1.3")
    fun append(value: CharArray)

    /**
     * Appends the specified string [value] to this string builder and returns this instance.
     */
    @SinceKotlin("1.3")
    fun append(value: String)

    /**
     * Ensures that the capacity of this string builder is at least equal to the specified
     * [minimumCapacity].
     */
    fun ensureCapacity(minimumCapacity: Int)

    /**
     * Returns the index within this string builder of the first occurrence of the specified [string],
     * starting at the specified [startIndex].
     */
    @SinceKotlin("1.3")
    fun indexOf(string: String, startIndex: Int): Int

    /**
     * Returns the index within this string builder of the last occurrence of the specified [string].
     * The last occurrence of empty string `""` is considered to be at the index equal to `this.length`.
     */
    @SinceKotlin("1.3")
    fun lastIndexOf(string: String): Int

    /**
     * Returns the index within this string builder of the first occurrence of the specified [string].
     */
    @SinceKotlin("1.3")
    fun indexOf(string: String): Int

    /**
     * Returns the index within this string builder of the last occurrence of the specified [string].
     */
    @SinceKotlin("1.3")
    fun lastIndexOf(string: String): Int

    /**
     * Returns the index within this string builder of the first occurrence of the specified [string].
     */
    @SinceKotlin("1.3")
    fun indexOf(string: String): Int

    /**
     * Returns the index within this string builder of the last occurrence of the specified [string].
     */
    @SinceKotlin("1.3")
    fun lastIndexOf(string: String): Int
builder of the last occurrence of the specified [string].
 * starting from the specified [startIndex] toward the
 beginning.
 * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 fun lastIndexOf(string: String, startIndex: Int): Int

 /**
 * Inserts the string representation of the specified boolean [value] into this
 string builder at the specified [index] and returns this instance.
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
 *
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 fun insert(index: Int, value: Boolean): StringBuilder

 /**
 * Inserts the specified character [value] into this string builder at the specified [index] and returns this instance.
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
 *
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 fun insert(index: Int, value: Char): StringBuilder

 /**
 * Inserts characters in the specified character array [value] into this string builder at the specified [index]
 and returns this instance.
 * The inserted characters go in same order as in the [value] character array, starting at [index].
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when
 `startIndex > endIndex`.
 *
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 fun insert(index: Int, value: Any?): StringBuilder

 /**
 * Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
 *
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 fun insert(index: Int, value: Any?): StringBuilder

 /**
 * Inserts characters in the specified character array [value] into this string builder at the specified [index],
 starting at [startIndex] and up to the [endIndex] (exclusive).
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
 *
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 fun insert(index: Int, startIndex: Int, endIndex: Int): String

 /**
 * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).
 * @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of this string builder indices or when
 `startIndex > endIndex`.
 *
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 fun substring(startIndex: Int): String

 /**
 * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).
 * @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of this string builder indices or when
 `startIndex > endIndex`.
 *
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 fun substring(startIndex: Int, endIndex: Int): String

 /**
 * Attempts to reduce storage used for this string builder.
 * If the backing storage of this string builder is larger than necessary to hold its current
 contents, then it may be resized to become more space efficient.
 * Calling this method may, but is not

 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 fun adjustCapacity()
inserted characters go in same order as in the [value] array, starting at [index].

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.
 * @param index the position in this string builder to insert at.
 * @param value the array from which characters are inserted.
 * @param startInex the beginning (inclusive) of the subarray to insert.
 * @param endIndex the end (exclusive) of the subarray to insert.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
 */
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun StringBuilder.insertRange(index: Int, value: CharSet, startIndex: Int, endIndex: Int): StringBuilder
```

```kotlin
@Suppress("EXTENSION_SHADOWED_BY_MEMBER")
@Deprecated("Use append(value) instead", ReplaceWith("append(value = obj)"), DeprecationLevel.WARNING)
@kotlin.internal.InlineOnly
public inline fun StringBuilder.append(obj: Any?): StringBuilder = this.append(obj)

/**
 * Builds new string by populating newly created [StringBuilder] using provided [builderAction] and then converting it to [String].
 * @return String
 */
public inline fun buildString(builderAction: StringBuilder.() -> Unit): String = StringBuilder().apply(builderAction).toString()

/**
 * Builds new string by populating newly created [StringBuilder] initialized with the given [capacity] using provided [builderAction] and then converting it to [String].
 * @return String
 */

```
by attaching `keySelector: (T) -> K` function to a source of elements. To get an instance of [Grouping] use one of `[groupingBy]` extension functions:

```kotlin
@<caret>SinceKotlin("1.1")@public interface Array.groupingBy
@<caret>SinceKotlin("1.1")@public interface CharSequence.groupingBy
@<caret>SinceKotlin("1.1")@public interface String.groupingBy
```

For the list of group-and-fold operations available, see the [extension functions][#extension-functions] for `Grouping`. *

Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially. The key for each element is provided by the [Grouping.keyOf] function. @param operation function is invoked on each element with the following parameters:

- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;
- `element`: the element from the source being accumulated;
- `first`: indicates whether it's the first `element` encountered in the group.

If the [destination] map already has a value corresponding to some key, then the elements being aggregated for that key are never considered as the first element. @return a [Map] associating the key of each group with the result of aggregation of the group elements.

@sample samples.collections.Grouping.aggregateByRadix

```kotlin
@<caret>SinceKotlin("1.1")@public interface Grouping<T, out K> {
    /** Returns an [Iterator] over the elements of the source of this grouping. */
    fun sourceIterator(): Iterator<T>
    /** Extracts the key of an [element]. */
    fun keyOf(element: T): K
}

/**
 * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in a new map. The key for each element is provided by the [Grouping.keyOf] function. @param operation function is invoked on each element with the following parameters:

- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;
- `element`: the element from the source being accumulated;
- `first`: indicates whether it's the first `element` encountered in the group.

If the [destination] map already has a value corresponding to some key, then the elements being aggregated for that key are never considered as the first element. @return a [Map] associating the key of each group with the result of aggregation of the group elements.

@sample samples.collections.Grouping.aggregateByRadixTo
```

```kotlin
@<caret>SinceKotlin("1.1")@public interface MutableMap<in K, R> {
    @<caret>Suppress("UNCHECKED_CAST")
}
```

### extension functions

For the list of group-and-fold operations available, see the [extension functions][#extension-functions] for `Grouping`.
provides an initial value of accumulator for each group.

It's invoked with parameters:

- `key`: the key of the group;
- `element`: the first element being encountered in that group.

If the [destination] map already has a value corresponding to some key, that value is used as an initial value of the accumulator for that group and the [initialValueSelector] function is not called for that group.

The current value of the accumulator of the group:

- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.

@return the [destination] map associating the key of each group with the result of accumulating the group elements.

.samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo

*\@SinceKotlin("1.1")*

`<T, K, R : Map<in K, R>> Grouping<T, K>.foldTo(\n    destination: M,\n    initialValueSelector: (key: K, element: T) -> R,\n    operation: (key: K, accumulator: R, element: T) -> R): M =\n    aggregateTo(destination) { key, acc, e, first -> operation(key, if (first)
        initialValueSelector(key, e) else acc as R, e) }

/**
 * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially.
 * An initial value of accumulator is the same [initialValue] for each group.
 * @param operation a function that is invoked on each element with the following parameters:
 *  - `key`: the key of the group this element belongs to;
 *  - `accumulator`: the current value of the accumulator of the group;
 *  - `element`: the element from the source being accumulated.
 * @return a [Map] associating the key of each group with the result of accumulating the group elements.
 */

@SinceKotlin("1.1")
public inline fun <T, K, R : Map<in K, R>> Grouping<T, K>.foldTo(
    destination: M,\n    initialValue: R,\n    operation: (accumulator: R, element: T) -> R): M =\n    aggregateTo(destination) { key, acc, e, first -> operation(if (first)
        initialValue else acc as R, e) }

/**
 * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group
 * sequentially starting from the second element of the group, passing the previously accumulated value and the current element as arguments, and stores the results in a new map.
 * An initial value of accumulator is the same [initialValue] for each group.
 * @param operation a function that is invoked on each subsequent element of the group with the following parameters:
 *  - `key`: the key of the group this element belongs to;
 *  - `accumulator`: the current value of the accumulator of the group;
 *  - `element`: the element from the source being accumulated.
 * @return a [Map] associating the key of each group with the result of accumulating the group elements.
 */

@SinceKotlin("1.1")
public inline fun <S, T : S, K> Grouping<T, K>.reduce(
    operation: (key: K, \n        accumulator: S, element: T) -> S): Map<K, S> =\n    aggregate { key, acc, e, first -> operation(key, if (first)
        e else operation(key, acc as S, e) }

/**
 * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group
 * sequentially starting from the second element of the group, passing the previously accumulated value and the current element as arguments, and stores the results in a new map.
 * An initial value of accumulator is the first element of the group.
 * @param operation a function that is invoked on each subsequent element of the group with the following parameters:
 *  - `key`: the key of the group this element belongs to;
 *  - `accumulator`: the current value of the accumulator of the group;
 *  - `element`: the element from the source being accumulated.
 * @return a [Map] associating the key of each group with the result of accumulating the group elements.
 */

@SinceKotlin("1.1")
public inline fun <S, T : S, K> Grouping<T, K>.reduceByMaxVowels(
    operation: (key: K, \n        accumulator: S, element: T) -> S): Map<K, S> =\n    aggregate { key, acc, e, first -> operation(key, if (first)
        e else operation(key, acc as S, e) }

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accumulator is the first element of the group.

* If the [destination] map already has a value corresponding to the key of some group,\n  * that value is used as an initial value of the accumulator for that group and the first element of that group is also
  * subjected to the [operation].\n
* @param operation a function that is invoked on each subsequent element of the group with the following parameters:
  *  - `accumulator`: the current value of the accumulator of the group;
  *  - `element`: the element from the source being folded;
  * @return the [destination] map associating the key of each group with the result of accumulating the group elements.

  @sample samples.collections.Grouping.reduceByMaxVowelsTo\n
  */
  @SinceKotlin("1.1")
  public inline fun <S,
  T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(
      destination: M,
      operation: (key: K, accumulator: S, element: T) -> S): M =
          aggregateTo(destination) { key, acc, e, first ->
              @Suppress("UNCHECKED_CAST")
              if (first) e else operation(key, acc as S, e)
          }

  /**
   * Groups elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.
   * @return the [destination] map associating the key of each group with the count of elements in the group.
   * @sample samples.collections.Grouping.groupingByEachCount
   */
  @SinceKotlin("1.1")
  public fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
  K>.eachCountTo(destination: M): M =
      foldTo(destination, 0) { acc, _ -> acc + 1 }

  /*
   * Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements
   * in each group to the given [destination] map.
   * @return the [destination] map associating the key of each group with the sum of elements in the group.
   * @sample samples.collections.Grouping.groupingByEachSumOf
   */
  @SinceKotlin("1.1")
  public inline fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
  K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =
      foldTo(destination, 0) { acc, e -> acc + valueSelector(e)}

  /*
   * TODO: sum by long and by double overloads
   */
  public inline fun <T, K, M : MutableMap<in K, Long>> Grouping<T,
  K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M =
      foldTo(destination, 0L) { acc, e -> acc + valueSelector(e)}
  public inline fun <T, K> Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =
      fold(0L) { acc, e -> acc + valueSelector(e)}

  public inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T,
  K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =
      foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e)}
  public inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) -> Double): Map<K, Double> =
      fold(0.0) { acc, e -> acc + valueSelector(e)}
```kotlin
@PublishedApi
internal fun trunc(value: Number): Double

@PublishedApi
internal fun sign(value: Number): Double

@PublishedApi
internal fun sinh(value: Double): Double
@PublishedApi
internal fun cosh(value: Double): Double
@PublishedApi
internal fun tanh(value: Double): Double
@PublishedApi
internal fun asinh(value: Double): Double
@PublishedApi
internal fun acosh(value: Double): Double
@PublishedApi
internal fun atanh(value: Double): Double

@PublishedApi
internal fun hypot(x: Double, y: Double): Double
@PublishedApi
internal fun expm1(value: Double): Double
@PublishedApi
internal fun log10(value: Double): Double
@PublishedApi
internal fun log2(value: Double): Double
@PublishedApi
internal fun log1p(value: Double): Double

@PublishedApi
internal fun clz32(value: Int): Int
```

```kotlin
/**
 * Returns the smaller of two values.
 */
@Suppress("DEPRECATED")
@Deprecated("Use minOf or kotlin.math.min instead", ReplaceWith("minOf(a, b)"), level = DeprecationLevel.ERROR)
public fun Math.min(a: Long, b: Long): Long =
if (a <= b) a else b

/**
 * Returns the greater of two values.
 */
@Suppress("DEPRECATED")
@Deprecated("Use maxOf or kotlin.math.max instead", ReplaceWith("maxOf(a, b)"), level = DeprecationLevel.ERROR)
public fun Math.max(a: Long, b: Long): Long =
if (a >= b) a else b
```
String, newValue: Any) {
    j["prop"] = 1
    j.set(p, newValue)
}

```
```

** will be generated:

```js
function test(j, p, newValue) {
    j["prop"] = 1;
    j[p] = newValue;
}
```

`/**
 * Returns a simple JavaScript object (as [JSON]) using provided key-value pairs as names and values of its properties.
 */

```js
public fun json(vararg pairs: Pair<String, Any?>) {
    val res: dynamic = js("({})")
    for ((name, value) in pairs) {
        res[name] = value
    }
    return res
}
```
nativeMath.sinh(x)\n\n\ncomputes the hyperbolic cosine of the value \[x\].\n\nSpecial cases:
- `cosh(NaN)` is `NaN`\n- `cosh(+Inf)` is `+Inf`\n- `cosh(-Inf)` is `-Inf`\n
```
/**
 * Computes the hyperbolic cosine of the value \[x\].\n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf)` is `+Inf`\n * - `cosh(-Inf)` is `-Inf`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic inline fun cosh(x: Double): Double = nativeMath.cosh(x)
```

```
/**
 * Computes the hyperbolic tangent of the value \[x\].\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `+Inf`\n * - `tanh(-Inf)` is `-Inf`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic inline fun tanh(x: Double): Double = nativeMath.tanh(x)
```

```
/**
 * Computes the inverse hyperbolic sine of the value \[x\].\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is `-Inf`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asinh(x: Double): Double = nativeMath.asinh(x)
```

```
/**
 * Computes the inverse hyperbolic cosine of the value \[x\].\n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when \[x < 1\]\n * - `acosh(+Inf)` is `+Inf`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acosh(x: Double): Double = nativeMath.acosh(x)
```

```
/**
 * Computes the inverse hyperbolic tangent of the value \[x\].\n * Special cases:\n * - `atanh(NaN)` is `NaN`\n * - `atanh(+Inf)` is `1.0`\n * - `atanh(-Inf)` is `-1.0`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atanh(x: Double): Double = nativeMath.atanh(x)
```

```
/**
 * Computes \[\sqrt{x^2 + y^2}\] without intermediate overflow or underflow.\n * Special cases:\n * - returns `+Inf` if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN`\n * and the other is not infinite\n * - `hypot(NaN, NaN)` is `NaN`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)
```

```
/**
 * Computes the positive square root of the value \[x\].\n * Special cases:\n * - `sqrt(x)` is `NaN` when \[x < 0\] or `x` is `NaN`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sqrt(x: Double): Double = nativeMath.sqrt(x)
```

```
/**
 * Computes \[e^x\] the natural exponential function.\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun exp(x: Double): Double = nativeMath.exp(x)
```

```
/**
 * Computes \[e^{x-1}\] the exponential function,\n * which is equal to \[e^x / e\].\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)
```

```
/**
 * Computes \[\log_b(x)\] the logarithm to the given base \[b\].\n * Special cases:\n * - `log(x)` is `NaN` when \[x < 0\] or `x` is `NaN`\n * - `log(1)` is `+Inf`\n * - `log(x)` is `-Inf` when \[x > +Inf\]\n * - `log(0)` is `-Inf`\n */
@SinceKotlin("1.2")\npublic actual fun log(x: Double, base: Double): Double {
    if (base <= 0.0 || base == 1.0) return Double.NaN
    return nativeMath.log(x) / nativeMath.log(base)
}
```

```
/**
 * Computes the natural logarithm (base \(E\)) of the value \[x\].\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when \[x < 0\] or `x` is `NaN`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ln(x: Double): Double = nativeMath.log(x)
```

```
/**
 * Computes the common logarithm (base 10) of the value \[x\].\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log10(x: Double): Double = nativeMath.log10(x)
```

```
/**
 * Computes the binary logarithm (base 2) of the value \[x\].\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log2(x: Double): Double = nativeMath.log2(x)
```

```
/**
 * Computes \[\ln(x + 1)\].\n * Special cases:\n * - `ln1p(x)` is `x` where \[x \geq -1\]\n * Rounds the given value \[x\] to an integer towards positive infinity.\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ceil(x: Double): Double =
nativeMath.ceil(x).unsafeCast<Double>() // TODO: Remove unsafe cast after removing public js.math

/**
 * Rounds the given value [x] to an integer towards negative infinity.
 * Execution is flushed to nativeMath in runtime.
 * Special cases:
 *   - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
 * @return the largest integer value that is less than or equal to the given value [x] and is a mathematical integer.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun floor(x: Double): Double = 
    nativeMath.floor(x).unsafeCast<Double>()

/**
 * Rounds the given value [x] to an integer towards zero.
 * Execution is flushed to nativeMath in runtime.
 * Special cases:
 *   - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
 * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun ceiling(x: Double): Double { 
    if (x % 0.5 != 0.0) {
        return nativeMath.ceil(x).unsafeCast<Double>()
    }
    return floor(x + 0.5)
}

/**
 * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.
 * Execution is flushed to nativeMath in runtime.
 * Special cases:
 *   - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
 * @return the value with the same sign as [x].
 */
@SinceKotlin("1.2")
@InlineOnly
public actual fun round(x: Double): Double = 
    if (x % 0.5 != 0.0) {
        return nativeMath.round(x).unsafeCast<Double>()
    }
    val floor = floor(x)
    return if (floor % 2 == 0.0) floor else ceil(x)

/**
 * Returns the absolute value of the given value [x].
 * Execution is flushed to nativeMath in runtime.
 * Special cases:
 *   - `abs(x)` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
 * @return the value with the same sign as [x].
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun abs(x: Double): Double = 
    nativeMath.abs(x)

/**
 * Returns the sign of the given value [x]:
 *   - `-1.0` if the value is negative,
 *   - `0.0` if the value is zero,
 *   - `1.0` if the value is positive
 * Execution is flushed to nativeMath in runtime.
 * Special case:
 *   - `sign(NaN)` is `NaN`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sign(x: Double): Double = 
    nativeMath.sign(x)

/**
 * Returns the smaller of two values.
 * Execution is flushed to nativeMath in runtime.
 * Special case:
 *   - `min(NaN, NaN)` is `NaN`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun min(a: Double, b: Double): Double = 
    nativeMath.min(a, b)

/**
 * Returns the greater of two values.
 * Execution is flushed to nativeMath in runtime.
 * Special case:
 *   - `max(NaN, NaN)` is `NaN`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun max(a: Double, b: Double): Double = 
    nativeMath.max(a, b)

// extensions

/**
 * Raises this value to the power [x].
 * Execution is flushed to nativeMath in runtime.
 * Special cases:
 *   - `b.pow(0.0)` is `1.0` when `b` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
 *   - `b.pow(1.0)` is `b` when `b` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
 *   - `b.pow(Inf)` is `NaN` when `b` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
 * Execution is flushed to nativeMath in runtime.
 * @return the value with the same sign as [x].
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun Double.pow(x: Double): Double = 
    nativeMath.pow(this, x)

/**
 * Raises this value to the integer power [n].
 * Execution is flushed to nativeMath in runtime.
 * Special case:
 *   - `NaN.pow(0)` is `NaN`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun Double.pow(n: Int): Double = 
    nativeMath.pow(this, n.toDouble())

/**
 * Returns the ulp (unit in the last place) of this value.
 * Execution is flushed to nativeMath in runtime.
 * Special cases:
 *   - `NaN.ulp` is `NaN`
 *   - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`
 *   - `x.ulp` is `-0.0` when `x` is `+0.0` or `-0.0`
 */
@SinceKotlin("1.2")
public actual val Double.ulp: Double get() = 
    when {
        this < 0 -> (-this).ulp
        this.isNaN() || this == Double.POSITIVE_INFINITY -> this
        this == Double.MAX_VALUE -> 
            Double.MAX_VALUE
        else -> this.nextUp() - this
    }

/**
 * Returns the value nearest to this value in direction of positive infinity.
 */
@SinceKotlin("1.2")
public actual fun Double.nextUp(): Double = 
    when {
        this.isNaN() || this == Double.POSITIVE_INFINITY -> this
        else -> Double.MAX_VALUE
    }

/**
 * Returns the value nearest to this value in direction of negative infinity.
 */
@SinceKotlin("1.2")
public actual fun Double.nextDown(): Double = 
    when {
        this.isNaN() || this == Double.NEGATIVE_INFINITY -> this
        else -> Double.MIN_VALUE
    }

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value in direction from this value towards the value [to].

```kotlin
public actual fun Double.nextTowards(to: Double): Double = when {
    this.isNaN() || to.isNaN() -> Double.NaN
    to == this ->
    to > this -> this.nextUp() else /* to < this */ -> this.nextDown()
}
```

**Round To Int**

```kotlin
public actual fun Double.roundToLong(): Long = when {
    isNaN() -> throw IllegalArgumentException("Cannot round NaN value.")
    this > Long.MAX_VALUE -> Long.MAX_VALUE
    this < Long.MIN_VALUE -> Long.MIN_VALUE
    else ->
        nativeMath.round(this).unsafeCast<Double>().toLong()
}
```

**Sine**

```kotlin
public actual inline fun sin(x: Float): Float =
    nativeMath.sin(x.toDouble()).toFloat()
```

**Cosine**

```kotlin
public actual inline fun cos(x: Float): Float =
    nativeMath.cos(x.toDouble()).toFloat()
```

**Tangent**

```kotlin
public actual inline fun tan(x: Float): Float =
    nativeMath.tan(x.toDouble()).toFloat()
```

**Arc Sine**

```kotlin
public actual inline fun asin(x: Float): Float =
    nativeMath.asin(x.toDouble()).toFloat()
```

**Arc Cosine**

```kotlin
public actual inline fun acos(x: Float): Float =
    nativeMath.acos(x.toDouble()).toFloat()
```

**Arc Tangent**

```kotlin
public actual inline fun atan(x: Float): Float =
    nativeMath.atan(x.toDouble()).toFloat()
```

**Hyperbolic Sine**

```kotlin
public actual inline fun sinh(x: Float): Float =
    nativeMath.sinh(x.toDouble()).toFloat()
```

**Hyperbolic Cosine**

```kotlin
public actual inline fun cosh(x: Float): Float =
    nativeMath.cosh(x.toDouble()).toFloat()
```

**Hyperbolic Tangent**

```kotlin
public actual inline fun tanh(x: Float): Float =
    nativeMath.tanh(x.toDouble()).toFloat()
```

**Hyperbolic Arc Sine**

```kotlin
public actual inline fun asinh(x: Float): Float =
    nativeMath.asinh(x.toDouble()).toFloat()
```

**Hyperbolic Arc Cosine**

```kotlin
public actual inline fun acosh(x: Float): Float =
    nativeMath.acosh(x.toDouble()).toFloat()
```

**Hyperbolic Arc Tangent**

```kotlin
public actual inline fun atanh(x: Float): Float =
    nativeMath.atanh(x.toDouble()).toFloat()
```

Float Math

```kotlin
Float Math

- Computes the sine of the angle [x] given in radians.
- Computes the cosine of the angle [x] given in radians.
- Computes the tangent of the angle [x] given in radians.
- Computes the arc cosine of the angle [x] given in radians.
- Computes the arc tangent of the angle [x] given in radians.
- Computes the arc tangent of the angle [x] given in radians.
- Computes the arc tangent of the angle [x] given in radians.
```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cosh(x: Float): Float =
nativeMath.cosh(x.toDouble()).toFloat()

/**
 * Computes the hyperbolic tangent of the value \(x\).
 * Special cases:
 *   - `tanh(NaN)` is `NaN`
 *   - `tanh(+Inf)` is `+1.0`
 *   - `tanh(-Inf)` is `-1.0`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tanh(x: Float): Float =
nativeMath.tanh(x.toDouble()).toFloat()

/**
 * Computes the inverse hyperbolic sine of the value \(x\).
 * Special cases:
 *   - `asinh(NaN)` is `NaN`
 *   - `asinh(+Inf)` is `+Inf`
 *   - `asinh(-Inf)` is `-Inf`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asinh(x: Float): Float =
nativeMath.asinh(x.toDouble()).toFloat()

/**
 * Computes the inverse hyperbolic cosine of the value \(x\).
 * Special cases:
 *   - `acosh(NaN)` is `NaN`
 *   - `acosh(x)` is `NaN` when \(x < 1\)
 *   - `acosh(+Inf)` is `+Inf`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acosh(x: Float): Float =
nativeMath.acosh(x.toDouble()).toFloat()

/**
 * Computes the inverse hyperbolic tangent of the value \(x\).
 * Special cases:
 *   - `tanh(NaN)` is `NaN`
 *   - `tanh(x)` is `NaN` when \(x > 1\) or \(x < -1\)
 *   - `tanh(1.0)` is `+Inf`
 *   - `tanh(-1.0)` is `-Inf`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atanh(x: Float): Float =
nativeMath.atanh(x.toDouble()).toFloat()

/**
 * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.
 * Special cases:
 *   - `hypot(NaN)` is `NaN`
 *   - `hypot(x, y)` is `NaN` when \(x\) or \(y\) are `NaN` and the other is not `NaN`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun hypot(x: Float, y: Float): Float =
nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()

/**
 * Computes the positive square root of the value \(x\).
 * Special cases:
 *   - `sqrt(x)` is `NaN` when \(x < 0\)
 *   - `sqrt(+Inf)` is `+Inf`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sqrt(x: Float): Float =
nativeMath.sqrt(x.toDouble()).toFloat()

/**
 * Computes Euler's number `e` raised to the power of the value \(x\).
 * Special cases:
 *   - `exp(NaN)` is `NaN`
 *   - `exp(+Inf)` is `+Inf`
 *   - `exp(-Inf)` is `0.0`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun exp(x: Float): Float =
nativeMath.exp(x.toDouble()).toFloat()

/**
 * Computes `exp(x) - 1`.
 * Special cases:
 *   - `expm1(NaN)` is `NaN`
 *   - `expm1(+Inf)` is `+Inf`
 *   - `expm1(-Inf)` is `-1.0`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun expm1(x: Float): Float =
nativeMath.expm1(x.toDouble()).toFloat()

/**
 * Computes the natural logarithm of the value \(x\).
 * Special cases:
 *   - `ln(x)` is `NaN` when \(x < 0\)
 *   - `ln(+Inf)` is `+Inf`
 *   - `ln(0.0)` is `-Inf`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun ln(x: Float): Float =
nativeMath.log(x.toDouble()).toFloat()

/**
 * Computes the common logarithm (base 10) of the value \(x\).
 * @see [ln] function for special cases.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log10(x: Float): Float =
nativeMath.log10(x.toDouble()).toFloat()

/**
 * Computes the binary logarithm (base 2) of the value \(x\).
 * @see [ln] function for special cases.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log2(x: Float): Float =
nativeMath.log2(x.toDouble()).toFloat()
mathematical integer.

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun ceil(x: Float): Float =
nativeMath.ceil(x.toDouble()).toFloat()

/**
 * Rounds the given value [x] to an integer towards negative infinity.
 * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.
 * @since Kotlin "1.2"
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun floor(x: Float): Float =
nativeMath.floor(x.toDouble()).toFloat()

/**
 * Rounds the given value [x] to an integer towards zero.
 * @return the value [x] having its fractional part truncated.
 * @since Kotlin "1.2"
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun truncate(x: Float): Float =
truncate(x.toDouble()).toFloat()

/**
 * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.
 * @return the value [x] having its fractional part truncated.
 * @since Kotlin "1.2"
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun round(x: Float): Float =
round(x.toDouble()).toFloat()

/**
 * Returns the absolute value of the given value [x].
 * @return the absolute value of [x] * @see absoluteValue extension property for [Float]
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun abs(x: Float): Float =
nativeMath.abs(x.toDouble()).toFloat()

/**
 * Returns the sign of the given value [x]:
 *   - `-1.0` if the value is negative,
 *   - `0.0` if the value is zero,
 *   - `1.0` if the value is positive
 * Special case:
 *   - `sign(NaN)` is `NaN`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sign(x: Float): Float =
nativeMath.sign(x.toDouble()).toFloat()

/**
 * Returns the smaller of two values.
 * If either value is `NaN`, then the result is `NaN`.
 * @since Kotlin "1.2"
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun min(a: Float, b: Float): Float =
nativeMath.min(a, b)

/**
 * Returns the greater of two values.
 * If either value is `NaN`, then the result is `NaN`.
 * @since Kotlin "1.2"
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun max(a: Float, b: Float): Float =
nativeMath.max(a, b)

// extensions

/**
 * Raises this value to the power [x].
 * Special cases:
 *   - `b.pow(0.0)` is `1.0`
 *   - `b.pow(1.0) == b`
 *   - `b.pow(NaN)` is `NaN`
 *   - `NaN.pow(x)` is `NaN` for `x != 0.0`
 *   - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`
 *   - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer
 *   - `NaN.pow(x)` is undefined
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun Float.pow(x: Float): Float =
nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()

/**
 * Raises this value to the integer power [n].
 * @since Kotlin "1.2"
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun Float.pow(n: Int): Float =
nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun Float.roundToLong(): Long =
  toDouble().roundToLong() /n

// endregion

// region ================ Integer Math

/**
 * Returns the absolute value of the given value \[n\]. Special cases:\n - `-abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n - @see absoluteValue extension property for [Int]\n - `Int.MAX_VALUE` is `Int.MAX_VALUE` due to an overflow\n
 * @return the absolute value of the given value \[n\]
 */
@SinceKotlin("1.2")
public actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n

/**
 * Returns the smaller of two values: \[a\] and \[b\].
 */
@SinceKotlin("1.2")
@Suppress("NOTHING_TO_INLINE")
public actual inline fun min(a: Int, b: Int): Int =
  nativeMath.min(a, b)

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
@Suppress("NOTHING_TO_INLINE")
public actual inline fun max(a: Int, b: Int): Int =
  nativeMath.max(a, b)

/**
 * Returns the absolute value of this value.
 *
 * Special cases:
 *   - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow
 *
 * @return the absolute value of this value
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline val Int.absoluteValue: Int get() = abs(this)

/**
 * Returns the sign of this value:
 *   - `-1` if the value is negative,
 *   - `0` if the value is zero,
 *   - `1` if the value is positive
 */
@SinceKotlin("1.2")
public actual val Int.sign: Int get() = when {
    this < 0 -> -1
    this > 0 -> 1
    else -> 0
}

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 */

package kotlin

/**
 * Returns `true` if the specified number is a Not-a-Number (NaN) value, `false` otherwise.
 */
public actual fun Double.isNaN(): Boolean = this != this

/**
 * Returns `true` if the specified number is a Not-a-Number (NaN) value, `false` otherwise.
 */
public actual fun Float.isNaN(): Boolean = this != this

/**
 * Returns `true` if this value is infinitely large in magnitude.
 */
public actual fun Double.isInfinite(): Boolean =
  this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY

/**
 * Returns `true` if this value is infinitely large in magnitude.
 */
public actual fun Float.isInfinite(): Boolean =
  this == Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY

/**
 * Counts the number of set bits in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.countOneBits(): Int {
    // Hacker's Delight 5-1 algorithm\n    var v = this\n    v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)
    v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)
    v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)
    v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)
    return v
}

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("DEPRECATION")
public actual fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.clz32(this)

/*
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 * @return the number of bits in the binary representation of this [Int] number
 */
@SinceKotlin("1.3")
public actual fun Int.countBits(): Int {
    // Hacker's Delight 5-1 algorithm\n    var v = this\n    v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)
    v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)
    v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)
    v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)
    return v
}

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
public actual fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.clz32(this)

// endregion
number of consecutive least significant bits that are zero in the binary representation of this [Int] number.
*
\@SinceKotlin("1.3")\n@ExperimentalStdlibApi
public actual fun Int.countTrailingZeroBits(): Int =\n    // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with countLeadingZeroBits
    Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.takeHighestOneBit(): Int =
    if (this == 0) 0 else 1 shl (Int.SIZE_BITS - 1 - countLeadingZeroBits())

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.takeLowestOneBit(): Int =
    // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n    this and -this

/**
 * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.rotateLeft(bitCount: Int): Int =
    shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)

/**
 * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.rotateRight(bitCount: Int): Int =
    shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)

/**
 * Counts the number of set bits in the binary representation of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.countOneBits(): Int =
    high.countOneBits() + low.countOneBits()

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.countLeadingZeroBits(): Int =
    when (val high = this.high) {
        0 -> Int.SIZE_BITS + low.countLeadingZeroBits()
        else ->
            high.countLeadingZeroBits()
    }

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.countTrailingZeroBits(): Int =
    when (val low = this.low) {
        0 -> Int.SIZE_BITS + high.countTrailingZeroBits()
        else -> low.countTrailingZeroBits()
    }

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.takeHighestOneBit(): Long =
    when (val high = this.high) {
        0 -> Long.SIZE_BITS + low.takeHighestOneBit()
        else -> Long(0, high.takeHighestOneBit())
    }

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.takeLowestOneBit(): Long =
    when (val low = this.low) {
        0 -> Long(0, high.takeLowestOneBit())
        else ->
            Long(low.takeLowestOneBit(), 0)
    }

/**
 * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.rotateLeft(bitCount: Int): Long =
    if ((bitCount and 31) != 0) {
        val low = this.low
        val high = this.high
        val newLow =
low.shl(bitCount) or high.ushr(-bitCount)
        val newHigh = high.shl(bitCount) or low.ushr(-bitCount)
        return if ((bitCount and 32) == 0) Long(newLow, newHigh) else (n return if ((bitCount and 32) == 0) this else Long(high, low)\n            )\n        } else {
            return if ((bitCount and 32) == 0) this else Long(high, low)
        }
    }

    /**
     * Rotates the binary representation of this
     * @Long number right by the specified @Int number of bits.
     * The least significant bits pushed out from the
     * right side reenter the number as the most significant bits on the left side.
     * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:
     * number.rotateRight(-n) ==
     * number.rotateLeft(n) * number.rotateRight(n) == number.rotateRight(n % 64)
     */
    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    @kotlin.internal.InlineOnly
    public actual inline fun
    Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)

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     */
    package kotlin.js
    import kotlin.internal.LowPriorityInOverloadResolution

    /**
     * Exposes the JavaScript @Promise object to Kotlin.
     * @Promise
     */
    @Suppress("NOT_DOCUMENTED")
    public open external class Promise<out T>(executor: (resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {
        @LowPriorityInOverloadResolution
        public open fun <S> then(onFulfilled: ((T) -> S)?): Promise<S>

        @LowPriorityInOverloadResolution
        public open fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>

        public open fun <S> catch(onRejected: (Throwable) -> S): Promise<S>

        companion object {
            public fun <S> all(promise: Array<out Promise<S>>): Promise<Array<out S>>

            public fun <S> race(promise: Array<out Promise<S>>>: Promise<S>
        }
    }

    // It's workaround
    for KT-19672 since we can fix it properly until KT-11265 isn't fixed.
    inline fun <T, S> Promise<Promise<T>>.then(
        noinline onFulfilled: ((T) -> S)?
    ): Promise<S> {
        return
        this.unsafeCast<Promise<T>>().then(onFulfilled)
    }

    inline fun <T, S> Promise<Promise<T>>.then(
        noinline onFulfilled: ((T) -> S)?,
        noinline onRejected: ((Throwable) -> S)?
    ): Promise<S> {
        return
        this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)
    }

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     */
    package kotlin.random
    import kotlin.math.pow

    internal actual fun defaultPlatformRandom(): Random =
        Random(js("(Math.random() * Math.pow(2, 32)) | 0").unsafeCast<Int>())

    private val INV_2_26: Double = 2.0.pow(-26)
    private val
    INV_2_53: Double = 2.0.pow(-53)
    internal actual fun doubleFromParts(hi26: Int, low27: Int): Double =
        hi26 * INV_2_26 + low27 * INV_2_53

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     */
    package kotlin.js

    import getKClass
    import kotlin.reflect.KClass
    import kotlin.reflect.js.internal.KClassImpl

    /**
     * Represents the constructor of a class. Instances of `JsClass` can be
     * passed to JavaScript APIs that expect a constructor reference.
     */
    external interface JsClass<T : Any> {
        /**
         * Returns the unqualified name of the class represented by this instance.
         */
        val name: String

        @Depreciated("Use class literal and extension property 'js' instead.",
        replaceWith = ReplaceWith("T::class.js"), level = DeprecationLevel.ERROR)
        @nuniverse fun js(val T: Any): JsClass<T>

        @Depreciated("Use class literal and extension property 'js' instead.",
        replaceWith = ReplaceWith("this::class.js"), level = DeprecationLevel.ERROR)
        @nuniverse fun js<T:Class>(val T: Any): JsClass<T>

        @nuniverse fun js<T:Class>(val T: Any): JsClass<T>
    }
that can be found in the license/LICENSE.txt file.

```kotlin
package kotlin.reflect.js.internal

import kotlin.reflect.*

internal abstract class KClassImpl<T : Any>(
    internal open val jClass: JsClass<T>
) : KClass<T> {
    override val annotations: List<Annotation>
        get() = TODO()
    override val constructors:
        Collection<KFunction<T>>
        get() = TODO()
    override val isAbstract: Boolean
        get() = TODO()
    override val isData: Boolean
        get() = TODO()
    override val isOpen: Boolean
        get() = TODO()
    override val isSealed: Boolean
        get() = TODO()
    override val nestedClasses:
        Collection<KClass<*>>
        get() = TODO()
    override val objectInstance: T?
        get() = TODO()
    override val qualifiedName: String?
        get() = TODO()
    override val supertypes: List<KType>
        get() = TODO()
    override val typeParameters: List<KTypeParameter>
        get() = TODO()
    override val sealedSubclasses: List<KClass<out T>>
        get() = TODO()
    override val visibility: KVisibility?
        get() = TODO()

    override fun equals(other: Any?): Boolean {
        return other is KClassImpl<*>() && jClass ==
            other.jClass
    }

    override fun toString(): String = "class $simpleName"
}

internal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {
    override val simpleName: String? = jClass.asDynamic().`$metadata$`?.simpleName.unsafeCast<String?>()

    override fun isInstance(value: Any?): Boolean {
        return jsIsType(value, jClass)
    }
}

internal class PrimitiveKClassImpl<T : Any>(
    jClass: JsClass<T>,
    private val givenSimpleName: String,
    private val
) : KClassImpl<T>(jClass) {
    override fun equals(other: Any?): Boolean
    {
        if (other !is PrimitiveKClassImpl<*>) return false
        return super.equals(other) && givenSimpleName ==
            other.givenSimpleName
    }

    override val simpleName: String? get() = givenSimpleName

    override fun isInstance(value: Any?): Boolean {
        return isInstanceFunction(value)
    }
}

internal object NothingKClassImpl : KClassImpl<Nothing>(js("Object")) {
    override val simpleName: String = "Nothing"

    override fun isInstance(value: Any?): Boolean = false

    override val jClass:
        JsClass<Nothing>
        get() = throw UnsupportedOperationException("There's no native JS class for Nothing type")

    override fun equals(other: Any?): Boolean = other === this

    override fun hashCode(): Int = 0
}
```

---

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*/

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\n
*/

package kotlin.reflect.js.internal

import kotlin.reflect.*

internal class KTypeImpl(
    override val classifier: KClassifier,
    override val arguments: List<KTypeProjection>,
    override val isMarkedNullable: Boolean)

val classifierName = when (\n    arguments.isEmpty() -> "\n    else -> "/\n\n    nullable = if (isMarkedNullable) "?" else ""
\n    return classifierName + args + nullable

// TODO: this should be the implementation of KTypeProjection.toString, see KT-30071
private fun KTypeProjection.asString(): String {
    if (variance == null) return "*
    return variance.prefixString() +
    type.toString() +
}

internal object DynamicKType : KType {
    override val classifier: KClassifier? =
    override val arguments: List<KTypeProjection> = emptyList()
    override val isMarkedNullable: Boolean
    override val annotations: List<Annotation> = emptyList()
    override fun toString(): String =
    "dynamic"
}

internal fun KVariance.prefixString() =
    when (this) {
        KVariance.INVARIANT ->
        KVariance.IN -> "in 
        KVariance.OUT -> "out 
        when (this) {
            KVariance.INVARIANT ->
            KVariance.IN -> "in 
            KVariance.OUT -> "out 
            "/\n            * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.
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            @JsName("PrimitiveClasses")
            internal object PrimitiveClasses {
                @JsName("anyClass")
                val anyClass = PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(), "Any", { it is Any })

                @JsName("numberClass")
                val numberClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })

                @JsName("nothingClass")
                val nothingClass = NothingKClassImpl

                @JsName("booleanClass")
                val booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean })

                @JsName("byteClass")
                val byteClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })

                @JsName("shortClass")
                val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(), "Short", { it is Short })

                @JsName("intClass")
                val intClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int", { it is Int })

                @JsName("floatClass")
                val floatClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(), "Float", { it is Float })

                @JsName("arrayClass")
                val arrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>>(), "Array", { it is Array })

                @JsName("stringClass")
                val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(), "String", { it is String })

                @JsName("throwableClass")
                val throwableClass = PrimitiveKClassImpl(js("Error").unsafeCast<JsClass<Throwable>>(), "Throwable", { it is Throwable })

                @JsName("booleanArrayClass")
                val booleanArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<BooleanArray>>(), "BooleanArray", { it is BooleanArray })

                @JsName("charArrayClass")
                val charArrayClass =

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PrimitiveKClassImpl(js("Uint16Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray })\n\n    @JsName("byteArrayClass")
    val byteArrayClass = PrimitiveKClassImpl(js("Int8Array").unsafeCast<JsClass<ByteArray>>(), "ByteArray", { it is ByteArray })\n\n    @JsName("shortArrayClass")
    val shortArrayClass = PrimitiveKClassImpl(js("Int16Array").unsafeCast<JsClass<ShortArray>>(), "ShortArray", { it is ShortArray })\n\n    @JsName("intArrayClass")
    val intArrayClass = PrimitiveKClassImpl(js("Int32Array").unsafeCast<JsClass<IntArray>>(), "IntArray", { it is IntArray })\n\n    @JsName("longArrayClass")
    val longArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<LongArray>>(), "LongArray", { it is LongArray })\n\n    @JsName("floatArrayClass")
    val floatArrayClass = PrimitiveKClassImpl(js("Float32Array").unsafeCast<JsClass<FloatArray>>(), "FloatArray", { it is FloatArray })\n\n    @JsName("doubleArrayClass")
    val doubleArrayClass = PrimitiveKClassImpl(js("Float64Array").unsafeCast<JsClass<DoubleArray>>(), "DoubleArray", { it is DoubleArray })\n\n    fun functionClass(arity: Int): KClassImpl<Any> {
        return functionClasses.get(arity) ?: run {
            val result = PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(), "Function$arity",
            { jsTypeOf(it) === "function" && it.asDynamic().length === arity })\n            functionClasses.asDynamic()[arity] = result
            result
        }\n    }\n    private val functionClasses = arrayOfNulls<KClassImpl<Any>>(0),/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * A package is omitted to get declarations directly under the module in\n * import kotlin.reflect.*\n * import kotlin.js.*\n * import kotlin.js.internal.*\n */

import kotlin.reflect.*
import kotlin.reflect.js.internal.*

@JsName("getKClass")
internal fun <T : Any> getKClass(jClass: JsClass<T>): KClass<T> =
    when (jsTypeOf(jClass)) {
        "string" -> PrimitiveClasses.stringClass
        "number" -> if (jsBitwiseOr(jClass, 0).asDynamic() === jClass)
            PrimitiveClasses.intClass else PrimitiveClasses.doubleClass
        "boolean" -> PrimitiveClasses.booleanClass
        "function" -> PrimitiveClasses.functionClass(jClass.asDynamic().length)\n        else -> run {\n            when {\n                jClass is BooleanArray -> PrimitiveClasses.booleanArrayClass
                jClass is CharArray -> PrimitiveClasses.charArrayClass
                jClass is ByteArray -> PrimitiveClasses.byteArrayClass
                jClass is ShortArray -> PrimitiveClasses.shortArrayClass
                jClass is IntArray -> PrimitiveClasses.intArrayClass
                jClass is LongArray -> PrimitiveClasses.longArrayClass
                jClass is FloatArray -> PrimitiveClasses.floatArrayClass
                jClass is DoubleArray -> PrimitiveClasses.doubleArrayClass
                jClass is KClass<*> -> KClass::class\n                else -> {\n                    val constructor = js("Object.prototype.getPrototypeOf(e).constructor")\n                    when {\n                        constructor === js("Object") -> PrimitiveClasses.anyClass\n                        constructor === js("Error") -> PrimitiveClasses.throwableClass\n                        else -> {\n                            val jsClass: JsClass<T> = jClass\n                            jsClass
                        }
                    }\n                }
            }
        }
    }

private fun <T : Any> getOrCreateKClass(jClass: JsClass<T>): KClass<T> {
    if (jClass === js("String")) return PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()

    val metadata = jClass.asDynamic().$metadata$
    return if (metadata.$kClass$ == null) {
        val kClass = SimpleKClassImpl(jClass)\n        metadata.$kClass$ = kClass\n        kClass
    } else {
        val metadata: SkClass$ = jClass\n        SimpleKClassImpl(jClass)\n    }\n}/*
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definedExternally) {

    public fun test(str: String): Boolean

    public fun exec(str: String): RegExpMatch?

    public override fun toString(): String

    /**
     * The lastIndex is a read/write integer property of regular expressions that specifies the index at which to start the next match.
     */
    public var lastIndex: Int

    public val global: Boolean
    public val ignoreCase: Boolean
    public val multiline: Boolean
}

/**
 * Resets the regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning of the input string.
 */
public fun RegExp.reset() {
    lastIndex = 0
}

// TODO: Inherit from array or introduce asArray() extension
/**
 * Represents the return value of [RegExp.exec].
 */
@Suppress("NOT_DOCUMENTED")
public external interface RegExpMatch {
    public val index: Int
    public val input: String
    public val length: Int
}

/**
 * Returns the entire text matched by [RegExp.exec] if the [index] parameter is 0, or the text matched by the capturing parenthesis at the given index.
 */
public inline fun RegExpMatch.get(index: Int): String? = asDynamic()[index]

/**
 * Converts the result of [RegExp.exec] to an array where the first element contains the entire matched text and each subsequent element is the text matched by each capturing parenthesis.
 */
public inline fun RegExpMatch.asArray(): Array<String?> = unsafeCast<Array<String?>>()

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 */

package kotlin.sequences

internal actual class ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {
    private var sequenceRef: Sequence<T>?

    actual override fun iterator(): Iterator<T> {
        sequenceRef = sequence
        return sequenceRef?.iterator() ?: throw IllegalStateException("This sequence can be consumed only once.")
    }

    /** Constructs a string builder that contains the same characters as the specified [content] char sequence. */
    actual constructor(content: CharSequence): this(content.toString()) {}
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)
Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[endIndex] (exclusive).} * in * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.

* @SinceKotlin("1.3") { in @ExperimentalStdlibApi fun substring(startIndex: Int, endIndex: Int): String
  
  AbstractList.checkBoundsIndexes(startIndex, endIndex, length) return string.substring(startIndex, endIndex)
} ** * Attempts to reduce storage used for this string builder. * in * If the backing
storage of this string builder is larger than necessary to hold its current contents, then it may be resized to
become more space efficient. * Calling this method may, but is not required to, affect the value of the [capacity]
property. * in Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal to
the length of the string builder. * @SinceKotlin("1.3") { in @ExperimentalStdlibApi fun trimToSize() {
  this.asDynamic()._capacity = length
}

override fun toString(): String = string

* @SinceKotlin("1.3") { in @ExperimentalStdlibApi fun clear(): StringBuilder {
  string = ""
  return this
}

* @SinceKotlin("1.3") { in @ExperimentalStdlibApi fun setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder {
  checkReplaceRange(startIndex, endIndex, length)
  this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)
  return this
}

private fun checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {
  if (startIndex < 0 || startIndex > endIndex) {
    throw IndexOutOfBoundsException("startIndex: $startIndex, endIndex: $endIndex")
  }
  if (startIndex > endIndex) {
    throw IllegalArgumentException("startIndex($startIndex) > endIndex($endIndex)")
  }
}

* @SinceKotlin("1.3") { in @ExperimentalStdlibApi fun deleteAt(index: Int): StringBuilder {
  AbstractList.checkElementIndex(index, length) string = string.substring(0, index) + string.substring(index + 1)
}

* @param startindex the beginning (inclusive) of the range to remove. * * param endIndex the end (exclusive) of the range to remove.

@SinceKotlin("1.3") { in @ExperimentalStdlibApi fun deleteRange(startIndex: Int, endIndex: Int): StringBuilder {
  checkReplaceRange(startIndex, endIndex, length)
  this.string = this.string.substring(0, startIndex) + string.substring(endIndex)
  return this
}

private fun checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {
  if (startIndex < 0 || startIndex > endIndex) {
    throw IndexOutOfBoundsException("startIndex: $startIndex, endIndex: $endIndex")
  }
  if (startIndex > endIndex) {
    throw IllegalArgumentException("startIndex($startIndex) > endIndex($sendIndex)")
  }
}

@SinceKotlin("1.3") { in @ExperimentalStdlibApi fun public fun deleteAt(index: Int): StringBuilder {
  AbstractList.checkElementIndex(index, length) string = string.substring(0, index) + string.substring(index + 1)
}

* @param startindex the beginning (inclusive) of the range to remove. * * param endIndex the end (exclusive) of the range to remove.

@SinceKotlin("1.3") { in @ExperimentalStdlibApi fun public fun deleteRange(startIndex: Int, endIndex: Int): StringBuilder {
  this.string = this.string.substring(0, startIndex) + string.substring(endIndex)
  return this
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  this.string = this.string.substring(0, startIndex) + string.substring(endIndex)
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  this.string = this.string.substring(0, startIndex) + string.substring(endIndex)
  return this
}

@SinceKotlin("1.3") { in @ExperimentalStdlibApi fun public fun deleteAt(index: Int): StringBuilder {
  AbstractList.checkElementIndex(index, length) string = string.substring(0, index) + string.substring(index + 1)
}

* @param startindex the beginning (inclusive) of the range to remove. * * param endIndex the end (exclusive) of the range to remove.

@SinceKotlin("1.3") { in @ExperimentalStdlibApi fun public fun deleteRange(startIndex: Int, endIndex: Int): StringBuilder {
  this.string = this.string.substring(0, startIndex) + string.substring(endIndex)
  return this
}
AbstractList.checkBoundsIndexes(\n    destinationOffset + endIndex - startIndex, destination.size) { \n    var dstIndex = destinationOffset for (index in startIndex until endIndex) { \n        destination[dstIndex++] = string[index] \n    } \n} */

* Appends characters in a subarray of the specified character array \n    [value] to this string builder and returns this instance. \n* @param value the array from which characters are appended. \n* @param startIndex the beginning (inclusive) of the subarray to append. \n* @param endIndex the end (exclusive) of the subarray to append. \n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when \n    [startIndex] or [endIndex] is out of range of the [value] array indices or when \n    `startIndex > endIndex`. \n
AbstractList.checkBoundsIndexes(\n    destinationOffset + endIndex - startIndex, destination.size) { \n    var dstIndex = destinationOffset for (index in startIndex until endIndex) { \n        destination[dstIndex++] = string[index] \n    } \n} */

* Inserts characters in a subarray of the specified character array \n    [value] into this string builder at the specified [index] and returns \n    this instance. \n* @param startIndex the beginning (inclusive) of the subsequence to append. \n* @param endIndex the end (exclusive) of the subsequence to append. \n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when \n    [startIndex] or [endIndex] is out of range of the [value] character sequence \n    indices or when `startIndex > endIndex`. \n
AbstractList.checkBoundsIndexes(\n    destinationOffset + endIndex - startIndex, destination.size) { \n    var dstIndex = destinationOffset for (index in startIndex until endIndex) { \n        destination[dstIndex++] = string[index] \n    } \n} */

* Inserts characters in a subsequence of the specified character sequence \n    [value] into this string builder at the specified [index] and returns \n    this instance. \n* @param startIndex the beginning (inclusive) of the subsequence to append. \n* @param endIndex the end (exclusive) of the subsequence to append. \n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when \n    [startIndex] or [endIndex] is out of range of the [value] character sequence \n    indices or when `startIndex > endIndex`. \n
AbstractList.checkBoundsIndexes(\n    destinationOffset + endIndex - startIndex, destination.size) { \n    var dstIndex = destinationOffset for (index in startIndex until endIndex) { \n        destination[dstIndex++] = string[index] \n    } \n} */

* The inserted characters go in same order as in the [value] array, starting at [index]. \n
* @param index the position in this string builder to insert at. \n* @throws IndexOutOfBoundsException or [IllegalArgumentException] when \n    [startIndex] or [endIndex] is out of range of the [value] character sequence \n    indices or when `startIndex > endIndex`. \n
public actual inline fun StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder
    = this.appendRange(value, startIndex, endIndex)

/**
 * Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.
 * @param value the character sequence from which a subsequence is appended. If [value] is `null`, then characters are
 * appended as if [value] contained the four characters `"null"`. @param startIndex the beginning (inclusive) of the
 * subsequence to append. @param endIndex the end (exclusive) of the subsequence to append. @throws
 * IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of
 * the [value] character sequence indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.appendRange(value: CharArray?, startIndex: Int, endIndex: Int): StringBuilder
    = this.appendRange(value, startIndex, endIndex)

/**
 * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified
 * [index] and returns this instance. The inserted characters go in same order as in the [value] array, starting at [index].
 * @param value the character array from which a subsequence is appended. If [value] is `null`, then characters will be
 * inserted as if [value] contained the four characters `"null"`. @param startIndex the beginning (inclusive) of the
 * subarray to insert. @param endIndex the end (exclusive) of the subarray to insert. @throws
 * IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of the
 * [value] array indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder
    = this.insertRange(index, value, startIndex, endIndex)

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified
 * [index] and returns this instance. The inserted characters go in the same order as in the [value] character sequence,
 * starting at [index].
 * @param value the character sequence from which a subsequence is inserted. If [value] is `null`, then characters
 * will be inserted as if [value] contained the four characters `"null"`. @param startIndex the beginning (inclusive) of the
 * subsequence to insert. @param endIndex the end (exclusive) of the subsequence to insert. @throws
 * IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of the
 * [value] character sequence indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.insertRange(index: Int, value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder
    = this.insertRange(index, value, startIndex, endIndex)

// actually \s is enough to match all whitespace, but \xA0 added because of different
// regexp behavior of Rhino used in Selenium tests
public actual fun Char.isWhitespace(): Boolean = toString().matches("[\s\xA0]")

@kotlin.internal.InlineOnly
@kotlin.internal.InlineOnly
public actual inline fun Char.toLowerCase(): Char = js("String.fromCharCode")
    (toInt()).toLowerCase().charCodeAt(0).unsafeCast<Int>().toChar()

@kotlin.internal.InlineOnly
@kotlin.internal.InlineOnly
public actual inline fun Char.toUpperCase(): Char = js("String.fromCharCode")
    (toInt()).toUpperCase().charCodeAt(0).unsafeCast<Int>().toChar()

/**
 * Returns `true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).
 */
@kotlin.internal.InlineOnly
@kotlin.internal.InlineOnly
public actual fun Char.isHighSurrogate(): Boolean = this in Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE

/**
 * Returns `true` if this character is a Unicode low-surrogate code unit (also known as trailing-surrogate code unit).
 */
@kotlin.internal.InlineOnly
@kotlin.internal.InlineOnly
public actual fun Char.isLowSurrogate(): Boolean = this in Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE

package kotlin.text

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

// actually \s is enough to match all whitespace, but \xA0 added because of different
// regexp behavior of Rhino used in Selenium tests
package kotlin.internal

InlineOnly
public actual inline fun Char.isWhitespace(): Boolean = toString().matches("[\s\xA0]")

inline fun invokeChar(Char.Companion::createChar)
    : Char = js("String.fromCharCode")
    (toInt()).toChar()

// actually \s is enough to match all whitespace, but \xA0 added because of different
// regexp behavior of Rhino used in Selenium tests
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public actual inline fun Char.isWhitespace(): Boolean = toString().matches("[\s\xA0]")

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// regexp behavior of Rhino used in Selenium tests
package kotlin.internal

InlineOnly
public actual inline fun Char.isWhitespace(): Boolean = toString().matches("[\s\xA0]")

inline fun invokeChar(Char.Companion::createChar)
    : Char = js("String.fromCharCode")
    (toInt()).toChar()
* @param replacement A replacement expression that can include substitutions. See
* public actual fun replace(input: CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern, replacement)

* Replaces all occurrences of this regular expression in the specified [input] string with the result of
* the given function [transform] that takes [MatchResult] and returns a string to be used as a
* replacement for that match.
* public actual inline fun replace(input: CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern, replacement)

*(MatchResult) -> CharSequence): String |
  var match = find(input)
  if (match == null) return
  input.toString()
  var lastStart = 0
  val length = input.length
  val sb = StringBuilder(length)
  do {
    var foundMatch = match!!
    sb.append(input, lastStart, foundMatch.range.start)
    sb.append(transform(foundMatch))
    lastStart = foundMatch.next()
  } while (lastStart < length && match != null)
  if (lastStart < length) {
    sb.append(input, lastStart, length)
  } return sb.toString()

* Replaces the first occurrence of this regular expression in the specified [input] string with specified [replacement] expression.
* public actual fun replaceFirst(input: CharSequence, replacement: String): String {
  val nonGlobalOptions = options.map { it.value }.joinToString(separator = "")
  return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement)
}

* Splits the [input] CharSequence around matches of this regular expression.
* @param limit Non-negative value specifying the maximum number of substrings
  the string can be split to.
* Zero by default means no limit is set.

* public actual fun split(input: CharSequence, limit: Int = 0): List<String> {
  require(limit >= 0) { "Limit must be non-negative, but was $limit" }
  val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }
  val result = mutableListOf<String>()
  var lastStart = 0
  for (match in matches) {
    result.add(input.subSequence(lastStart, match.range.start).toString())
    lastStart = match.range.endInclusive + 1
  }
  result.add(input.subSequence(lastStart, input.length).toString())
  return result
}

* Returns the string representation of this regular expression, namely the [pattern] of this regular
  expression.
* *Note that another regular expression constructed from the same pattern string may have
  different [options] and may match strings differently.

* public override fun toString(): String = nativePattern.toString()

* Returns a regular expression that matches the specified [literal] string literally.
* No characters of that string will have special meaning when searching for an occurrence of the regular expression.
* public actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))

* Returns a regular expression pattern string that matches the specified [literal] string literally.
* No characters of that string will have special meaning when it is used as a
  replacement string in [RegExp.replace] function.
* public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, "\\$&")

* Returns a literal replacement expression for the specified [pattern] string and the specified single
  option.

* @Deprecated("Provided for binary compatibility", level = DeprecationLevel.HIDDEN)
  fun Regex_0(pattern: String, option: RegexOption): Regex = Regex(pattern, setOf(option))

* Creates a regular expression from the specified [pattern] string and the default options.
  * @Deprecated("Provided for binary compatibility", level = DeprecationLevel.HIDDEN)
  fun Regex_1(pattern: String): Regex = Regex(pattern)
throwOnMalformed() \n val byte3 = bytes[index + 1].toInt() \n if (byte3 and 0xC0 != 0x80) { \n   return malformed(1, index, throwOnMalformed()) \n } \n else if (byte2 and 0xF0 <= 0x80) { \n   return malformed(2, index, throwOnMalformed()) \n } else if (byte2 and 0x80F0 == 0x0080) { \n   return malformed(3, index, throwOnMalformed()) \n } else { \n   val byte4 = bytes[index + 2].toInt() \n   if (byte4 and 0xC0 != 0x80) { \n     return malformed(4, index, throwOnMalformed()) \n   } else { \n     return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -0x1E080 \n   } \n }

/**
 * Returns code point corresponding to UTF-8 sequence of four bytes, where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index]. \n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence \n * if the sequence is malformed and [throwOnMalformed] is false. \n * @param throwOnMalformed whether to throw on malformed char sequence or replace by the replacement byte sequence \n */
    if (index >= endIndex) {
        malformed(0, index, throwOnMalformed()) \n    }

    val byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0x0) {
        if (byte2 and 0xF0 <= 0x80) {
            // Non-shortest form
            return malformed(0, index, throwOnMalformed()) \n        } else if (byte2 and 0x80F0 == 0x0080) { \n            // Out of Unicode code points domain (larger than U+10FFFF)\n            return malformed(0, index, throwOnMalformed()) \n        } else { \n            return (byte1 shl 18) xor (byte2 shl 12) xor byte3 xor -0x1E080 \n        } \n    } else if (byte1 and 0xF == 0x4) {
        if (byte2 and 0xF0 != 0x80) {
            // Out of Unicode code points domain (larger than U+10FFFF)\n            return malformed(0, index, throwOnMalformed()) \n        } \n    } else if (byte1 and 0xF > 0x4) {
        return malformed(0, index, throwOnMalformed()) \n    } else if (index + 1 == endIndex) {
        return malformed(1, index, throwOnMalformed()) \n    } else if (index + 2 == endIndex) {
        return malformed(2, index, throwOnMalformed()) \n    } else if (index + 3 == endIndex) {
        return malformed(3, index, throwOnMalformed()) \n    } else if (index + 4 == endIndex) {
        return malformed(4, index, throwOnMalformed()) \n    } else { \n        val byte4 = bytes[index + 2].toInt() \n        if (byte4 and 0xC0 != 0x80) { \n            return malformed(4, index, throwOnMalformed()) \n        } \n        return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor byte4 xor 0x381F80 \n    }

    return codePointFromSurrogate(string, code, charIndex, endIndex, throwOnMalformed()) \n}

/**
 * Maximum number of bytes needed to encode a single character. \n * Code points in '0x80'..'0x7FF' are encoded in a single byte. \n * Code points in '0xD800'..'0xDFFF' are not Unicode scalar values, therefore aren't encoded. \n */
private const val MAX_BYTES_PER_CHAR = 3

/**
 * The byte sequence a malformed UTF-16 char sequence is replaced by. \n */
private val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(), 0xBF.toByte(), 0xBD.toByte())

/**
 * Encodes the [string] using UTF-8 and returns the resulting [ByteArray]. \n * @param string the string to encode. \n * @param startIndex the start offset (inclusive) of the substring to encode. \n * @param endIndex the end offset (exclusive) of the substring to encode. \n * @param throwOnMalformed whether to throw on malformed char sequence or replace by the replacement byte sequence. \n */
internal fun encodeUtf8(string: String, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {
    require(startIndex >= 0 && endIndex <= string.length && startIndex <= endIndex)

    val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)
    var byteIndex = 0
    var charIndex = startIndex

    while (charIndex < endIndex) {
        val code = string[charIndex++].toInt() \n        when { \n            code < 0x80 -> \n                bytes[byteIndex++] = code.toByte() \n            code < 0x800 -> \n                bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte() \n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte() \n            code < 0x10000 -> \n                bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte() \n                bytes[byteIndex++] = (((code shr 6) and 0x3F) or 0x80).toByte() \n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte() \n            else -> \n                REPLACEMENT_BYTE_SEQUENCE[0].toByte() \n                REPLACEMENT_BYTE_SEQUENCE[1].toByte() \n                REPLACEMENT_BYTE_SEQUENCE[2].toByte() \n                REPLACEMENT_BYTE_SEQUENCE[3].toByte() \n        } \n    }

    return bytes
}
return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n\n* The character a malformed UTF-8 byte sequence is replaced by.\n* /nupright const val REPLACEMENT_CHAR = %uFFFD%u/*\n* Decodes the UTF-8 [bytes] array and returns the resulting [String].\n* /n* @param bytes the byte array to decode.\n* /n* @param startIndex the start offset (inclusive) of the array to be decoded.\n* /n* @param endIndex the end offset (exclusive) of the array to be encoded.\n* /n* @param throwOnMalformed whether to throw on malformed byte sequence or replace by the [REPLACEMENT_CHAR].\n* /n* @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n* /ninternal fun decodeUtf8(bytes: BytesArray,\n* /nstartIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n\n* require(startIndex >= 0 && endIndex <=\n* /nbytes.size) &&\n* /nstartIndex <= endIndex\n\n* var byteIndex = startIndex\n* /n val byteStringBuilder = StringBuilder(bytes)\n* /n while (byteIndex < endIndex) \n\n* stringBuilder.append(byte.toChar())\n* /n byte shr 5 == -2 -\n* /n > \n* /n val code =\n* /n codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n\n* if (code <= 0) {\n* /n stringBuilder.append(REPLACEMENT_CHAR)\n* /n byteIndex += -code\n* } else {\n* /n stringBuilder.append(code.toChar())\n* /n byteIndex += 1\n* }\n\n* if (code <= 0) {\n* /n stringBuilder.append(REPLACEMENT_CHAR)\n* /n byteIndex += -code\n* } else {\n* /n val high = (code - 0x10000) shr 10 or 0xD800\n* /n val low = (code and 0x3FF) or 0xDC00\n* /n stringBuilder.append(high.toChar())\n* /n stringBuilder.append(low.toChar())\n* /n byteIndex += 2\n* }\n\n* malformed(0, byteIndex, throwOnMalformed)\n* /n stringStringBuilder.append(REPLACEMENT_CHAR)\n\n* }\n\n* return stringStringBuilder.toString()\n\n*
* Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n*/

package kotlin.time

@SinceKotlin("1.3")
@ExperimentalTime
public actual enum class DurationUnit(internal val scale: Double) {
    /**
     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n*  
*  */
    NANOSECONDS(1e0),
    /**
     * Time unit representing one microsecond, which is 1/1000 of a millisecond.\n*  
*  */
    MICROSECONDS(1e3),
    /**
     * Time unit representing one millisecond, which is 1/1000 of a second.\n*  
*  */
    MILLISECONDS(1e6),
    /**
     * Time unit representing one second.\n*  
*  */
    SECONDS(1e9),
    /**
     * Time unit representing one minute.\n*  
*  */
    MINUTES(60e9),
    /**
     * Time unit representing one hour.\n*  
*  */
    HOURS(3600e9),
    /**
     * Time unit representing one day, which is always equal to 24 hours.\n*  
*  */
    DAYS(86400e9),
    /**
     * Time unit representing one week.\n*  
*  */
    WEEKS(604800e9),
    /**
     * Time unit representing one month.\n*  
*  */
    MONTHS(2592000e9),
    /**
     * Time unit representing one year.\n*  
*  */
    YEARS(31536000e9);
}

@SinceKotlin("1.3")
@ExperimentalTime
internal actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {
    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)
    return when {
        sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)
        sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale)
        else -> value
    }
}

import org.w3c.performance.GlobalPerformance
import org.w3c.performance.Performance

@SinceKotlin("1.3")
@ExperimentalTime
internal actual object MonotonicTimeSource : TimeSource {

    private val actualSource: TimeSource = run {
        val isNode: Boolean = js("typeof process !== 'undefined' && process.versions && !!process.versions.node")
        if (isNode)
            HrTimeSource(js("process").unsafeCast<Process>())
        else
            js("self").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource)
                ?: DateNowTimeSource

    }

    override fun markNow(): TimeMark = actualSource.markNow()
}

fun htime(time: Double): TimeMark = actualSource.markNow()
Array<Double>
}

@SinceKotlin("1.3")
@ExperimentalTime
internal class HrTimeSource(val process:
Process) : TimeSource {

    override fun markNow(): TimeMark = object : TimeMark() {
        val startedAt = process.hrtime().let { (seconds,
nanos) -> seconds.seconds + nanos.nanoseconds }  

        override fun elapsedNow(): Duration =
process.hrtime(startedAt).let { (seconds,
nanos) -> seconds.seconds + nanos.nanoseconds }  

    }

    override fun toString(): String =
"TimeSource(process.hrtime())"
}

@SinceKotlin("1.3")
@ExperimentalTime
internal class PerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit =
DurationUnit.MILLISECONDS) {

    override fun read(): Double = performance.now()

    override fun toString(): String =
"TimeSource(performance.now())"
}

@SinceKotlin("1.3")
@ExperimentalTime
internal object DateNowTimeSource : AbstractDoubleTimeSource(unit =
DurationUnit.MILLISECONDS) {

    override fun read(): Double = kotlin.js.Date.now()

    override fun toString(): String =
"TimeSource(Date.now())"
}

internal actual fun formatToExactDecimals(value: Double, decimals: Int): String {
    val rounded = if (decimals == 0) {
        value
    } else {
        val pow =
10.0.pow(decimals)
        kotlin.js.Math.round(abs(value) * pow) / pow * sign(value)
    }
    return
rounded.asDynamic().toFixed(decimals).unsafeCast<String>()
}

internal actual fun
formatUpToDecimals(value: Double, decimals: Int): String {
    return value.asDynamic().toLocaleString("en-US",
json("maximumFractionDigits" to decimals)).unsafeCast<String>()
}

internal actual fun
formatScientific(value: Double): String {
    return
value.asDynamic().toExponential(2).unsafeCast<String>()
}
WebGLRenderbuffer?
    fun createShader(type: Int): WebGLShader?
    fun createTexture(): WebGLTexture?
    fun cullFace(mode: Int)
    fun deleteBuffer(buffer: WebGLBuffer?)
    fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)
    fun deleteProgram(program: WebGLProgram?)
    fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)
    fun deleteShader(shader: WebGLShader?)
    fun deleteTexture(texture: WebGLTexture?)
    fun depthFunc(func: Int)
    fun depthMask(flag: Boolean)
    fun depthRange(zNear: Float, zFar: Float)
    fun detachShader(program: WebGLProgram?, shader: WebGLShader?)
    fun disable(cap: Int)
    fun disableVertexAttribArray(index: Int)
    fun drawArrays(mode: Int, first: Int, count: Int)
    fun drawElements(mode: Int, count: Int, type: Int, offset: Int)
    fun enable(cap: Int)
    fun enableVertexAttribArray(index: Int)
    fun finish()
    fun flush()
    fun framebufferRenderbuffer(target: Int, attachment: Int, renderbuffer: WebGLRenderbuffer?)
    fun frontFace(mode: Int)
    fun generateMipmap(target: Int)
    fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?
    fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?
    fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?
    fun getAttribLocation(program: WebGLProgram?, name: String): Int
    fun getBufferParameter(target: Int, pname: Int): Any?
    fun getParameter(pname: Int): Any?
    fun getError(): Int
    fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?
    fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?
    fun getProgramInfoLog(program: WebGLProgram?): String?
    fun getRenderbufferParameter(target: Int, attachment: Int, pname: Int): Any?
    fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?
    fun getShaderPrecisionFormat(shadertype: Int, precisiontype: Int): WebGLShaderPrecisionFormat?
    fun getShaderInfoLog(shader: WebGLShader?): String?
    fun getShaderSource(shader: WebGLShader?): String?
    fun getTexParameter(target: Int, pname: Int): Any?
    fun getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?
    fun getVertexAttrib(index: Int, pname: Int): Any?
    fun getVertexAttribOffset(index: Int, pname: Int): Int
    fun hint(target: Int, mode: Int)
    fun isBuffer(buffer: WebGLBuffer?): Boolean?
    fun isEnabled(cap: Int): Boolean?
    fun isFramebuffer(framebuffer: WebGLFramebuffer?): Boolean?
    fun isProgram(program: WebGLProgram?): Boolean?
    fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean?
    fun isShadershader: WebGLShader?)
    Boolean?
    fun isTexture(texture: WebGLTexture?): Boolean?
    fun lineWidth(width: Float)
    fun linkProgram(program: WebGLProgram?)
    fun pixelStorei(pname: Int, param: Int)
    fun polygonOffset(factor: Float, units: Float)
    fun readPixels(x: Int, y: Int, width: Int, height: Int)
    fun renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)
    fun sampleCoverage(value: Float, invert: Boolean)
    fun scissor(x: Int, y: Int, width: Int, height: Int)
    fun shaderSource(shader: WebGLShader?, source: String?)
    fun stencilFunc(func: Int, ref: Int, mask: Int)
    fun stencilMask(mask: Int)
    fun stencilOp(fail: Int, zfail: Int, zpass: Int)
    fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int)
    fun texParameterf(target: Int, pname: Int, param: Float)
    fun texParameteri(target: Int, pname: Int, param: Int)
    fun texParameteri(target: Int, pname: Int, param: Int)
    fun uniform1f(location: WebGLUniformLocation?, v: Float)
    fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform1f(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform2f(location: WebGLUniformLocation?, v: Float)
    fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform2f(location: WebGLUniformLocation?, v: Float)
    fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform3f(location: WebGLUniformLocation?, v: Float)
    fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform3f(location: WebGLUniformLocation?, v: Float)
    fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform4f(location: WebGLUniformLocation?, v: Float)
    fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform4f(location: WebGLUniformLocation?, v: Float)
    fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform4f(location: WebGLUniformLocation?, v: Float)
    fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform4f(location: WebGLUniformLocation?, v: Float)
    fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array?)
    fun uniform4f(location: WebGLUniformLocation?, v: Float)
STENCIL_PASS_DEPTH_FAIL: Int
val STENCIL_PASS_DEPTH_PASS: Int
val STENCIL_REF:
val STENCIL_VALUE_MASK: Int
val STENCIL_WRITEMASK: Int
val STENCIL_BACK_FUNC: Int
val STENCIL_BACK_FAIL: Int
val STENCIL_BACK_PASS_DEPTH_FAIL: Int
val STENCIL_BACK_PASS_DEPTH_PASS: Int
val STENCIL_BACK_REF: Int
val STENCIL_BACK_VALUE_MASK: Int
val STENCIL_BACK_WRITEMASK: Int
val VIEWPORT: Int
val SCISSOR_BOX: Int
val COLOR_CLEAR_VALUE: Int
val COLOR_WRITEMASK: Int
val UNPACK_ALIGNMENT: Int
val PACK_ALIGNMENT: Int
val MAX_TEXTURE_SIZE: Int
val MAX_VIEWPORT_DIMS: Int
val SUBPIXEL_BITS: Int
val RED_BITS: Int
val GREEN_BITS: Int
val BLUE_BITS: Int
val ALPHA_BITS: Int
val DEPTH_BITS: Int
val STENCIL_BITS: Int
val POLYGON_OFFSET_UNITS: Int
val POLYGON_OFFSET_FACTOR: Int
val TEXTURE_BINDING_2D: Int
val SAMPLE_BUFFERS: Int
val SAMPLES: Int
val SAMPLE_COVERAGE_VALUE: Int
val SAMPLE_COVERAGE_INVERT: Int
val COMPRESSED_TEXTURE_FORMATS: Int
val DONT_CARE: Int
val FASTEST: Int
val NICEST: Int
val GENERATE_MIPMAP_HINT: Int
val BYTE: Int
val UNSIGNED_BYTE: Int
val SHORT: Int
val UNSIGNED_SHORT: Int
val INT: Int
val UNSIGNED_INT: Int
val FLOAT: Int
val DEPTH_COMPONENT: Int
val ALPHA: Int
val RGB: Int
val RGBA: Int
val LUMINANCE: Int
val LUMINANCE_ALPHA: Int
val UNSIGNED_SHORT_4_4_4_4: Int
val UNSIGNED_SHORT_5_5_5_1: Int
val UNSIGNED_SHORT_5_6_5: Int
val FRAGMENT_SHADER: Int
val VERTEX_SHADER: Int
val MAX_VERTEX_ATTRIBS: Int
val MAX_VERTEX_UNIFORM_VECTORS: Int
val MAX_VARYING_VECTORS: Int
val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int
val MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int
val MAX_TEXTURE_IMAGE_UNITS: Int
val MAX_FRAGMENT_UNIFORM_VECTORS: Int
val SHADER_TYPE: Int
val DELETE_STATUS: Int
val LINK_STATUS: Int
val VALIDATE_STATUS: Int
val ATTACHED_SHADERS: Int
val ACTIVE_UNIFORMS: Int
val ACTIVE_ATTRIBUTES: Int
val SHADING_LANGUAGE_VERSION: Int
val CURRENT_PROGRAM: Int
val NEVER: Int
val LESS: Int
val EQUAL: Int
val LEQUAL: Int
val GREATER: Int
val NOTEQUAL: Int
val GEQUAL: Int
val ALWAYS: Int
val KEEP: Int
val REPLACE: Int
val INCR: Int
val DECR: Int
val INVERT: Int
val INCR_WRAP: Int
val DECR_WRAP: Int
val VENDOR: Int
val RENDERER: Int
val VERSION: Int
val NEAREST: Int
val LINEAR: Int
val NEAREST_MIPMAP_NEAREST: Int
val LINEAR_MIPMAP_NEAREST: Int
val NEAREST_MIPMAP_LINEAR: Int
val LINEAR_MIPMAP_LINEAR: Int
val TEXTURE_MAG_FILTER: Int
val TEXTURE_MIN_FILTER: Int
val TEXTURE_WRAP_S: Int
val TEXTURE_WRAP_T: Int
val TEXTURE_2D: Int
val TEXTURE: Int
val TEXTURE_CUBE_MAP: Int
val TEXTURE_BINDING_CUBE_MAP: Int
val TEXTURE_CUBE_MAP_POSITIVE_X: Int
val TEXTURE_CUBE_MAP_NEGATIVE_X: Int
val TEXTURE_CUBE_MAP_POSITIVE_Y: Int
val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int
val TEXTURE_CUBE_MAP_POSITIVE_Z: Int
val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int
val MAX_CUBE_MAP_TEXTURE_SIZE: Int
val TEXTURE0: Int
val TEXTURE1: Int
val TEXTURE2: Int
val TEXTURE3: Int
val TEXTURE4: Int
val TEXTURE5: Int
val TEXTURE6: Int
val TEXTURE7: Int
val TEXTURE8: Int
val TEXTURE9: Int
val TEXTURE10: Int
val TEXTURE11: Int
val TEXTURE12: Int
val TEXTURE13: Int
val TEXTURE14: Int
val TEXTURE15: Int
val TEXTURE16: Int
val TEXTURE17: Int
val TEXTURE18: Int
val TEXTURE19: Int
val TEXTURE20: Int
val TEXTURE21: Int
val TEXTURE22: Int
val TEXTURE23: Int
val TEXTURE24: Int
val TEXTURE25: Int
val TEXTURE26: Int
val TEXTURE27: Int
val TEXTURE28: Int
val TEXTURE29: Int
val TEXTURE30: Int
val TEXTURE31: Int
val ACTIVE_TEXTURE: Int
val REPEAT: Int
STATIC_DRAW: Int
DYNAMIC_DRAW: Int
BUFFER_SIZE: Int
CURRENT_VERTEX_ATTRIB: Int
FRONT: Int
BACK: Int
FRONT_AND_BACK: Int
CULL_FACE: Int
BLEND: Int
dITHER: Int
STENCIL_TEST: Int
DEPTH_TEST: Int
SCISSOR_TEST: Int
POLYGON_OFFSET_FILL: Int
SAMPLE_ALPHA_TO_COVERAGE: Int
SAMPLE_COVERAGE: Int
NO_ERROR: Int
INVALID_ENUM: Int
INVALID_VALUE: Int
INVALID_OPERATION: Int
OUT_OF_MEMORY: Int
CW: Int
CCW: Int
LINE_WIDTH: Int
ALIASED_POINT_SIZE_RANGE: Int
ALIASED_LINE_WIDTH_RANGE: Int
CULL_FACE_MODE: Int
FRONT_FACE: Int
DEPTH_RANGE: Int
DEPTH_WRITEMASK: Int
DEPTH_CLEAR_VALUE: Int
DEPTH_FUNC: Int
STENCIL_CLEAR_VALUE: Int
STENCIL_FUNC: Int
STENCIL_PASS_DEPTH_FAIL: Int
STENCIL_PASS_DEPTH_PASS: Int
STENCIL_REF: Int
STENCIL_VALUE_MASK: Int
STENCIL_BACK_FUNC: Int
STENCIL_BACK_FAIL: Int
STENCIL_BACK_PASS_DEPTH_FAIL: Int
STENCIL_BACK_PASS_DEPTH_PASS: Int
POLYGON_OFFSET_UNITS: Int
POLYGON_OFFSET_FACTOR: Int
TEXTURE_BINDING_2D: Int
SAMPLE_BUFFERS: Int
SAMPLES: Int
SAMPLE_COVERAGE_VALUE: Int
SAMPLE_COVERAGE_INVERT: Int
COMPRESSED_TEXTURE_FORMATS: Int
DONT_CARE: Int
FASTEST: Int
NICEST: Int
GENERATE_MIPMAP_HINT: Int
BYTE: Int
UNSIGNED_BYTE: Int
SHORT: Int
UNSIGNED_SHORT: Int
INT: Int
UNSIGNED_INT: Int
FLOAT: Int
DEPTH_COMPONENT: Int
ALPHA: Int
RGB: Int
RGBA: Int
LUMINANCE: Int
LUMINANCE_ALPHA: Int
UNSIGNED_SHORT_4_4_4_4: Int
UNSIGNED_SHORT_5_5_5_1: Int
UNSIGNED_SHORT_5_6_5: Int
FRAGMENT_SHADER: Int
VERTEX_SHADER: Int
MAX_VERTEX_ATTRIBS: Int
MAX_VERTEX_UNIFORM_VECTORS: Int
MAX_VARYING_VECTORS: Int
MAX_VARYING_VECTORS: Int
MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int
MAX_TEXTURE_IMAGE_UNITS: Int
MAX_FRAGMENT_UNIFORM_VECTORS: Int
SHADER_TYPE: Int
ATTACHED_SHADERS: Int
ACTIVE_UNIFORMS: Int
ACTIVE_ATTRIBUTES: Int
SHADING_LANGUAGE_VERSION: Int
CURRENT_PROGRAM: Int
NEVER: Int
LESS: Int
EQUAL: Int
LEQUAL: Int
GREATER: Int
NOTEQUAL: Int
ALWAYS: Int
KEEP: Int
REPLACE: Int
INCR: Int
DECR: Int
INVERT: Int
INCR_WRAP: Int
DECR_WRAP: Int
VENDOR: Int
RENDERER: Int
VERSION: Int
NEAREST: Int
LINEAR: Int
NEAREST_MIPMAP_NEAREST: Int
LINEAR_MIPMAP_NEAREST: Int
NEAREST_MIPMAP_LINEAR: Int
LINEAR_MIPMAP_LINEAR: Int
TEXTURE_MAG_FILTER: Int
TEXTURE_MIN_FILTER: Int
TEXTURE_WRAP_S: Int
TEXTURE_WRAP_T: Int
TEXTURE_WRAP_S: Int
TEXTURE_WRAP_T: Int
TEXTURE_2D: Int
TEXTURE_CUBE_MAP: Int
TEXTURE_BINDING_CUBE_MAP: Int
TEXTURE_CUBE_MAP_POSITIVE_X: Int
TEXTURE_CUBE_MAP_NEGATIVE_X: Int
TEXTURE_CUBE_MAP_POSITIVE_Y: Int
TEXTURE_CUBE_MAP_NEGATIVE_Y: Int
TEXTURE_CUBE_MAP_POSITIVE_Z: Int
TEXTURE_CUBE_MAP_NEGATIVE_Z: Int
TEXTURE_CUBE_MAP_S: Int
TEXTURE_CUBE_MAP_T: Int
TEXTURE_CUBE_MAP_S: Int
TEXTURE_CUBE_MAP_T: Int
val TEXTURE_CUBE_MAP_POSITIVE_Y: Int
        val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int
        val TEXTURE_CUBE_MAP_POSITIVE_Z: Int
        val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int
        val MAX_CUBE_MAP_TEXTURE_SIZE: Int
        val TEXTURE0: Int
        val TEXTURE1: Int
        val TEXTURE2: Int
        val TEXTURE3: Int
        val TEXTURE4: Int
        val TEXTURE5: Int
        val TEXTURE6: Int
        val TEXTURE7: Int
        val TEXTURE8: Int
        val TEXTURE9: Int
        val TEXTURE10: Int
        val TEXTURE11: Int
        val TEXTURE12: Int
        val TEXTURE13: Int
        val TEXTURE14: Int
        val TEXTURE15: Int
        val TEXTURE16: Int
        val TEXTURE17: Int
        val TEXTURE18: Int
        val TEXTURE19: Int
        val TEXTURE20: Int
        val TEXTURE21: Int
        val TEXTURE22: Int
        val TEXTURE23: Int
        val TEXTURE24: Int
        val TEXTURE25: Int
        val TEXTURE26: Int
        val TEXTURE27: Int
        val TEXTURE28: Int
        val TEXTURE29: Int
        val TEXTURE30: Int
        val TEXTURE31: Int
        val ACTIVE_TEXTURE: Int
        val CLAMP_TO_EDGE: Int
        val MIRRORED_REPEAT: Int
        val FLOAT_VEC2: Int
        val FLOAT_VEC3: Int
        val FLOAT_VEC4: Int
        val INT_VEC2: Int
        val INT_VEC3: Int
        val INT_VEC4: Int
        val BOOL: Int
        val BOOL_VEC2: Int
        val BOOL_VEC3: Int
        val BOOL_VEC4: Int
        val FLOAT_MAT2: Int
        val FLOAT_MAT3: Int
        val FLOAT_MAT4: Int
        val SAMPLER_2D: Int
        val SAMPLER_CUBE: Int
        val VERTEX_ATTRIB_ARRAY_ENABLED: Int
        val VERTEX_ATTRIB_ARRAY_SIZE: Int
        val VERTEX_ATTRIB_ARRAY_STRIDE: Int
        val VERTEX_ATTRIB_ARRAY_TYPE: Int
        val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int
        val VERTEX_ATTRIB_ARRAY_POINTER: Int
        val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int
        val IMPLEMENTATION_COLOR_READ_TYPE: Int
        val IMPLEMENTATION_COLOR_READ_FORMAT: Int
        val LOW_FLOAT: Int
        val MEDIUM_FLOAT: Int
        val HIGH_FLOAT: Int
        val LOW_INT: Int
        val MEDIUM_INT: Int
        val HIGH_INT: Int
        val RGBA4: Int
        val RGB5_A1: Int
        val RGB565: Int
        val DEPTH_COMPONENT16: Int
        val STENCIL_INDEX: Int
        val STENCIL_INDEX8: Int
        val DEPTH_STENCIL: Int
        val RENDERBUFFER_WIDTH: Int
        val RENDERBUFFER_HEIGHT: Int
        val RENDERBUFFER_INTERNAL_FORMAT: Int
        val RENDERBUFFER_RED_SIZE: Int
        val RENDERBUFFER_GREEN_SIZE: Int
        val RENDERBUFFER_BLUE_SIZE: Int
        val RENDERBUFFER_ALPHA_SIZE: Int
        val RENDERBUFFER_DEPTH_SIZE: Int
        val RENDERBUFFER_STENCIL_SIZE: Int
        val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int
        val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int
        val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int
        val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int
        val COLOR_ATTACHMENT0: Int
        val DEPTH_ATTACHMENT: Int
        val STENCIL_ATTACHMENT: Int
        val NONE: Int
        val FRAMEBUFFER_COMPLETE: Int
        val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int
        val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int
        val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int
        val FRAMEBUFFER_UNSUPPORTED: Int
        val FRAMEBUFFER_BINDING: Int
        val RENDERBUFFER_BINDING: Int
        val MAX_RENDERBUFFER_SIZE: Int
        val INVALID_FRAMEBUFFER_OPERATION: Int
        val UNPACK_FLIP_Y_WEBGL: Int
        val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int
        val CONTEXT_LOST_WEBGL: Int
        val BROWSER_DEFAULT_WEBGL: Int
        val CONTEXT_LOST_WEBGL: Int
        val CONTEXT_RESET_WEBGL: Int
        val CONTEXT_FOCUSED_WEBGL: Int
        val CONTEXTinnie: WebGLContextEvent

    }
}

/**
 * Exposes the JavaScript
 */
public external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =
definedExternally) : Event {
    open val statusMessage: String

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
        val UNPACK_COLORSPACE_CONVERSION_WEBGL: WebGlContextEventInit -> String?
        val UNPACK_PREMULTIPLY_ALPHA_WEBGL: WebGlContextEventInit -> String?
        val CONTEXT_RESET_WEBGL: WebGlContextEventInit -> String?
        val CONTEXT_LOST_WEBGL: WebGlContextEventInit -> String?
        val CONTEXTinnie: WebGLContextEvent

        

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fun Int16Array.set(index: Int, value: Short) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript

[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin

*public external open class Uint16Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Uint16Array)\n  fun set(array: Uint16Array, offset: Int)\n  override fun set(array: Array<Short>, offset: Int)\n  override fun set(array: Int32Array, offset: Int)\n  override fun set(array: Float32Array, offset: Int)\n  override fun set(array: Float64Array, offset: Int)\n  override fun get(index: Int): Short
  public inline operator fun Uint16Array.get(index: Int): Short
  public inline operator fun Uint16Array.set(index: Int, value: Short)
  companion object {
    val BYTES_PER_ELEMENT: Int
  }
}

@kotlin.internal.InlineOnly
public inline operator fun Uint16Array.get(index: Int): Short = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Uint16Array.set(index: Int, value: Short) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript

[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin

*public external open class Int16Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Int16Array)\n  constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n  fun set(array: Int16Array, offset: Int)\n  override fun set(array: Array<Int>, offset: Int)\n  override fun set(array: Float32Array, offset: Int)\n  override fun set(array: Float64Array, offset: Int)\n  override fun get(index: Int): Int
  public inline operator fun Int16Array.get(index: Int): Int
  public inline operator fun Int16Array.set(index: Int, value: Int)
  companion object {
    val BYTES_PER_ELEMENT: Int
  }
}

@kotlin.internal.InlineOnly
public inline operator fun Int16Array.get(index: Int): Int = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Int16Array.set(index: Int, value: Int) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript

[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin

  public inline operator fun Uint32Array.get(index: Int): Int
  public inline operator fun Uint32Array.set(index: Int, value: Int)
  companion object {
    val BYTES_PER_ELEMENT: Int
  }
}

@kotlin.internal.InlineOnly
public inline operator fun Uint32Array.get(index: Int): Int = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Uint32Array.set(index: Int, value: Int) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript

[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin

*public external open class Float32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float32Array)\n  constructor(array: Array<Float>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n  fun set(array: Float32Array, offset: Int)\n  override fun set(array: Array<Float>, offset: Int)\n  override fun set(array: Uint16Array, offset: Int)\n  override fun get(index: Int): Float
  public inline operator fun Float32Array.get(index: Int): Float
  public inline operator fun Float32Array.set(index: Int, value: Float)
  companion object {
    val BYTES_PER_ELEMENT: Int
  }
}

@kotlin.internal.InlineOnly
public inline operator fun Float32Array.get(index: Int): Float = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Float32Array.set(index: Int, value: Float) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript

[Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin

*public external open class Float64Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float64Array)\n  constructor(array: Array<Double>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n  fun set(array: Float64Array, offset: Int)\n  override fun set(array: Array<Double>, offset: Int)\n  override fun set(array: Uint16Array, offset: Int)\n  override fun get(index: Int): Double
  public inline operator fun Float64Array.get(index: Int): Double
  public inline operator fun Float64Array.set(index: Int, value: Double)
  companion object {
    val BYTES_PER_ELEMENT: Int
  }
}

@kotlin.internal.InlineOnly
public inline operator fun Float64Array.get(index: Int): Double = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Float64Array.set(index: Int, value: Double) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript

[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin

*public external open class DataView : Uint8Array {\n  constructor(length: Int)\n  constructor(array: DataView)\n  constructor(array: ArrayBuffer)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = 0, length: Int = undefined)\n  fun set(array: DataView, offset: Int)\n  override fun set(array: Array<ui8>, offset: Int)\n  override fun set(array: Uint8ClampedArray, offset: Int)\n  override fun get(index: Int): u8
  public inline operator fun DataView.get(index: Int): u8
  public inline operator fun DataView.set(index: Int, value: u8)
  companion object {
    val BYTES_PER_ELEMENT: u8
  }
}

@kotlin.internal.InlineOnly
public inline operator fun DataView.get(index: Int): u8 = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun DataView.set(index: Int, value: u8) { asDynamic()[index] = value }

**
MediaList : ItemArrayLike<String> {
    open var mediaText: String
    fun appendMedium(medium: String)
    fun deleteMedium(medium: String)
    override fun item(index: Int): String
}

@kotlin.internal.InlineOnly
public inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]

/**
 * Exposes the JavaScript
 */
public external abstract class StyleSheet {
    open val type: String
    open val href: String?
    open val ownerNode: UnionElementOrProcessingInstruction?
    open val parentStyleSheet: StyleSheet?
    open val disabled: Boolean
    open val media: MediaList?
    open val title: String?

    open var disabled: Boolean
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSStyleSheet : StyleSheet {
    open val ownerRule: CSSRule?
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)
}

/**
 * Exposes the JavaScript
 */
public external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {
    override fun item(index: Int): StyleSheet
}

@kotlin.internal.InlineOnly
public inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]

/**
 * Exposes the JavaScript
 */
public external interface LinkStyle {
    val sheet: StyleSheet?
        get() = definedExternally
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSRuleList : ItemArrayLike<CSSRule> {
    override fun item(index: Int): CSSRule
}

@kotlin.internal.InlineOnly
public inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]

/**
 * Exposes the JavaScript
 */
public external abstract class CSSRule {
    open val type: Short
    open var cssText: String
    open val parentRule: CSSRule?
    open val parentStyleSheet: CSSStyleSheet?

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSImportRule : CSSRule {
    open val href: String
    open val media: MediaList?
    open val styleSheet: CSSStyleSheet

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSGroupingRule : CSSRule {
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class CSSMediaRule : CSSGroupingRule {
    open val media: MediaList?

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}
public external abstract class CSSPageRule : CSSGroupingRule {
    open var selectorText: String
    open val style: CSSStyleDeclaration

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

public external abstract class CSSMarginRule : CSSRule {
    open val name: String
    open val style: CSSStyleDeclaration

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 * [CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin
 */
public external abstract class CSSNamespaceRule : CSSRule {
    open val namespaceURI: String
    open val prefix: String

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 * [CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin
 */
public external abstract class CSSStyleDeclaration : ItemArrayLike<String> {
    open var cssText: String
    open val parentRule: CSSRule?
    open var cssFloat: String
    open var alignContent: String
    open var alignItems: String
    open var alignSelf: String
    open var animation: String
    open var animationDelay: String
    open var animationDirection: String
    open var animationDuration: String
    open var animationFillMode: String
    open var animationIterationCount: String
    open var animationName: String
    open var animationPlayState: String
    open var animationTimingFunction: String
    open var background: String
    open var backgroundColor: String
    open var backgroundAttachment: String
    open var backgroundClip: String
    open var backgroundOrigin: String
    open var backgroundPosition: String
    open var backgroundRepeat: String
    open var backgroundSize: String
    open var border: String
    open var borderBottom: String
    open var borderBottomColor: String
    open var borderBottomLeftRadius: String
    open var borderBottomRightRadius: String
    open var borderBottomStyle: String
    open var borderBottomWidth: String
    open var borderCollapse: String
    open var borderColor: String
    open var borderImage: String
    open var borderImageOutset: String
    open var borderImageRepeat: String
    open var borderImageSource: String
    open var borderImageWidth: String
    open var borderTop: String
    open var borderTopColor: String
    open var borderTopLeftRadius: String
    open var borderTopRightRadius: String
    open var borderTopStyle: String
    open var borderTopWidth: String
    open var borderWidth: String
    open var bottom: String
    open var boxDecorationBreak: String
    open var boxShadow: String
    open var boxSizing: String
    open var breakAfter: String
    open var breakBefore: String
    open var breakInside: String
    open var captionSide: String
    open var clear: String
    open var clip: String
    open var color: String
    open var columnCount: String
    open var columnFill: String
    open var columnGap: String
    open var columnRule: String
    open var columnRuleColor: String
    open var columnRuleStyle: String
    open var columnRuleWidth: String
    open var columnSpan: String
    open var columnWidth: String
    open var columns: String
    open var content: String
    open var counterIncrement: String
    open var counterReset: String
    open var cursor: String
    open var direction: String
    open var display: String
    open var emptyCells: String
    open var filter: String
    open var flex: String
    open var flexBasis: String
    open var flexDirection: String
    open var flexGrow: String
    open var flexShrink: String
    open var flexWrap: String
    open var font: String
    open var fontFamily:
    val o = js("({})")
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierNumLock"] = modifierNumLock
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external interface EventModifierInit : UIEventInit {
    var ctrlKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierAltGraph: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierCapsLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFn: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFnLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierHyper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierNumLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierScrollLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSuper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbol: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbolLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the Java

Kotlin Programming Language contributors.

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See github.com/kotlin/dukat for details.

*/

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
// See github.com/kotlin/dukat for details

package org.w3c.dom

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external abstract class HTMLAllCollection {
    open val length: Int
    fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?
    fun namedItem(name: String): UnionElementOrHTMLCollection?
}

@kotlin.internal.InlineOnly
public inline operator fun HTMLAllCollection.get(index: Int): Element? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? =
    asDynamic()[name]

/**
 * Exposes the JavaScript [HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection) to Kotlin
 */
public external abstract class HTMLFormControlsCollection : HTMLCollection

/**
 * Exposes the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin
 */
public external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {
    open var value: String
}

/**
 * Exposes the JavaScript [HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin
 */
public external abstract class HTMLOptionsCollection : HTMLCollection {
    override var length: Int
    open
    var selectedIndex: Int
    fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)
    fun remove(index: Int)
}

@kotlin.internal.InlineOnly
public inline operator fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }

/**
 * Exposes the JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin
 */
public external abstract class HTMLElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers,
ElementContentEditable, ElementCSSInlineStyle {
    open var title: String
    open var lang: String
    open var translate: Boolean
    open var dir: String
    open val dataset: DOMStringMap
    open var hidden: Boolean
    open var tabIndex: Int
    open var accessKey: String
    open val accessKeyLabel: String
    open var draggable: Boolean
    open val dropzone: DOMTokenList
    open var contextMenu: HTMLMenuElement?
    open var spellcheck: Boolean
    open var innerText: String
    open val offsetParent: Element?
    open val offsetTop: Int
    open val offsetLeft: Int
    open val offsetWidth: Int
    open val offsetHeight: Int
    fun click()
    fun focus()
    fun blur()
    fun forceSpellCheck()

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
/**
 * Exposes the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin *
 */
public external abstract class HTMLLinkElement : HTMLElement, LinkStyle {
    open var href: String
    open var crossOrigin: String?
    open var rel: String
    open var `as`: RequestDestination
    open val relList: DOMTokenList
    open var media: String
    open var nonce: String
    open var hreflang: String
    open var `type`: String
    open val sizes: DOMTokenList
    open var referrerPolicy: String
    open var charset: String
    open var rev: String
    open var target: String
    open var scope: String
    open var workerType: WorkerType

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin *
 */
public external abstract class HTMLMetaElement : HTMLElement {
    open var name: String
    open var httpEquiv: String
    open var content: String
    open var scheme: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin *
 */
public external abstract class HTMLStyleElement : HTMLElement, LinkStyle {
    open var media: String
    open var nonce: String
    open var `type`: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin *
 */
public external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {
    open var text: String

open var link: String
open var vLink: String
open var aLink: String
open var bgColor: String
open var background: String

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin
 */
public external abstract class HTMLHeadingElement : HTMLElement {
open var align: String

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin
 */
public external abstract class HTMLParagraphElement : HTMLElement {
open var align: String

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin
 */
public external abstract class HTMLHRElement : HTMLElement {
open var align: String
open var color: String
open var noShade: Boolean
open var size: String
open var width: String

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin
 */
public external abstract class HTMLPreElement : HTMLElement {
open var width: Int

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}
**Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin**

```kotlin
public external abstract class HTMLQuoteElement : HTMLElement {
    open var cite: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOListElement) to Kotlin
 */
public external abstract class HTMLOListElement : HTMLElement {
    open var reversed: Boolean
    open var start: Int
    open var type: String
    open var compact: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin
 */
public external abstract class HTMLUListElement : HTMLElement {
    open var compact: Boolean
    open var type: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
    }
}

/**
 * Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin
 */
public external abstract class HTMLLIElement : HTMLElement {
    open var value: Int
    open var type: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
    }
}
value: String
    open var type: String
    open var valueType: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }

/**
 * Exposes the JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin */
public external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {
    open var width: Int
    open var height: Int
    open val videoWidth: Int
    open val videoHeight: Int
    open var poster: String
    open var playsInline: Boolean

    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_METADATA: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }

/**
 * Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin */
public external abstract class HTMLAudioElement : HTMLMediaElement {
    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_METADATA: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }

/**
 * Exposes the JavaScript [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin */
public external abstract class HTMLTrackElement : HTMLElement {
    open var kind: String
    open var src: String
    open var srclang: String
    open var label: String
    open var default: Boolean
    open val readyState: Short
    open val track: TextTrack

    companion object {
        val NONE: Short
        val LOADING: Short
        val LOADED: Short
        val ERROR: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
    }
DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin
 */
public external abstract class HTMLMediaElement : HTMLElement {
    open val error: MediaError?
    open var src: String
    open var srcObject: dynamic
    open val currentSrc: String
    open var crossOrigin: String?
    open val networkState: Short
    open var preload: String
    open val buffered: TimeRanges
    open val readyState: Short
    open var seeking: Boolean
    open var currentTime: Double
    open val duration: Double
    open val paused: Boolean
    open var defaultPlaybackRate: Double
    open var playbackRate: Double
    open var played: TimeRanges
    open var seekable: TimeRanges
    open val ended: Boolean
    open var autoplay: Boolean
    open var loop: Boolean
    open var controls: Boolean
    open var volume: Double
    open var muted: Boolean
    open var defaultMuted: Boolean
    open val audioTracks: AudioTrackList
    open val videoTracks: VideoTrackList
    open val textTracks: TextTrackList
    fun load()
    fun canPlayType(type: String): CanPlayTypeResult
    fun fastSeek(time: Double)
    fun getStartDate(): dynamic
    fun play(): Promise<Unit>
    fun pause()
    fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack

    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_METADATA: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        val HAVE_ERROR: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_RECOVERY_DATA: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin
 */
public external abstract class MediaError {
    open val code: Short

    companion object {
        val MEDIA_ERR_ABORTED: Short
        val MEDIA_ERR_NETWORK: Short
        val MEDIA_ERR_DECODE: Short
        val MEDIA_ERR_SRC_NOT_SUPPORTED: Short
    }
}

/**
 * Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin
 */
public external abstract class AudioTrackList : EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackById(id: String): AudioTrack?
}

@kotlin.internal.InlineOnly
public inline operator fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index]

/**
 * Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin
 */
public external abstract class VideoTrackList : EventTarget {
    open val length: Int
    open val selectedIndex: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackById(id: String): VideoTrack?
}

@kotlin.internal.InlineOnly
public inline operator fun VideoTrackList.get(index: Int): VideoTrack?
VideoTrack? = asDynamic()[index]

/**
 * Exposes the JavaScript [VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin
 */
public external abstract class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {
    open val id: String
    open val label: String
    open val language: String
    open var selected: Boolean
}

public external abstract class TextTrackList: EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackById(id: String): TextTrack?
}

@kotlin.internal.InlineOnly
public inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index]

/**
 * Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin
 */
public external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {
    open val kind: TextTrackKind
    open val label: String
    open val language: String
    open val id: String
    open val inBandMetadataTrackDispatchType: String
    open val cues: TextTrackCueList?
    open val activeCues: TextTrackCueList?
    open var oncuechange: ((Event) -> dynamic)?
    fun addCue(cue: TextTrackCue)
    fun removeCue(cue: TextTrackCue)
}

public external abstract class TextTrackCueList {
    open val length: Int
    fun getCueById(id: String): TextTrackCue?
}

@kotlin.internal.InlineOnly
public inline operator fun TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index]

/**
 * Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin
 */
public external abstract class TextTrackCue : EventTarget {
    open val track: TextTrack?
    open var id: String
    open var startTime: Double
    open var endTime: Double
    open var pauseOnExit: Boolean
    open var onenter: ((Event) -> dynamic)?
    open var onexit: ((Event) -> dynamic)?
}

/**
 * Exposes the JavaScript [TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin
 */
public external abstract class TimeRanges {
    open val length: Int
    fun start(index: Int): Double
    fun end(index: Int): Double
}

/**
 * Exposes the JavaScript [TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin
 */
public external open class TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {
    open val track: UnionAudioTrackOrTextTrackOrVideoTrack?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface TrackEventInit : EventInit {
    var track: UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly

/**
 * Exposes the JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin
 */
public external abstract class HTMLMapElement : HTMLElement {
    open var name: String
    open val areas: HTMLCollection

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val ENTITY_NODE: Short
        val CDATA_SECTION_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }

    /**
     * Exposes the JavaScript [HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin
     */
    public external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {
String
  open var coords: String
  open var shape: String
  open var target: String
  open var download: String
  open var ping: String
  open var rel: String
  open val relList: DOMTokenList
  open var referrerPolicy: String
  open var noHref: Boolean
  companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_TYPE_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
  }

/**
 * Exposes the JavaScript [HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin
 */
public external abstract class HTMLTableElement : HTMLElement {
    open var caption: HTMLTableCaptionElement?
    open var tHead: HTMLTableSectionElement?
    open var tFoot: HTMLTableSectionElement?
    open val tBodies: HTMLCollection
    open val rows: HTMLCollection
    open var align: String
    open var border: String
    open var frame: String
    open var rules: String
    open var summary: String
    open var width: String
    open var bgColor: String
    open var cellPadding: String
    open var cellSpacing: String
    fun createCaption(): HTMLTableCaptionElement
    fun deleteCaption()
    fun createTHead(): HTMLTableSectionElement
    fun deleteTHead()
    fun createTFoot(): HTMLTableSectionElement
    fun insertRow(index: Int = definedExternally): HTMLTableRowElement
    fun deleteRow(index: Int)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to Kotlin
 */
public external abstract class HTMLTableCaptionElement : HTMLElement {
    open var align: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin
 */
public external abstract class HTMLTableColElement : HTMLElement {
    open var span: Int
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var width: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
open class HTMLTableSectionElement : HTMLElement {
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertRow(index: Int = definedExternally): HTMLElement
    fun deleteRow(index: Int)
}

open class HTMLTableRowElement : HTMLElement {
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertCell(index: Int = definedExternally): HTMLElement
    fun deleteCell(index: Int)
}

open class HTMLTableCellElement : HTMLElement {
    open var colSpan: Int
    open var rowSpan: Int
    open var headers: String
    open var cellIndex: Int
    open var scope: String
    open var abbr: String
    open var align: String
    open var axis: String
    open var height: String
    open var width: String
    open var ch: String
    open var chOff: String
    open var noWrap: Boolean
    open var vAlign: String
    open var bgColor: String
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableSectionElement]
 ([https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement)) to Kotlin
 *
 */
public external abstract class HTMLTableSectionElement : HTMLElement {
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertRow(index: Int = definedExternally): HTMLTableSectionElement
    fun deleteRow(index: Int)
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableRowElement]
 ([https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement)) to Kotlin
 *
 */
public external abstract class HTMLTableRowElement : HTMLElement {
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertCell(index: Int = definedExternally): HTMLTableRowElement
    fun deleteCell(index: Int)
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableCellElement]
 *
 */
public external abstract class HTMLTableCellElement : HTMLElement {
    open var colSpan: Int
    open var rowSpan: Int
    open var headers: String
    open var cellIndex: Int
    open var scope: String
    open var abbr: String
    open var align: String
    open var axis: String
    open var height: String
    open var width: String
    open var ch: String
    open var chOff: String
    open var noWrap: Boolean
    open var vAlign: String
    open var bgColor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableSectionElement]
 ([https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement)) to Kotlin
 *
 */
public external abstract class HTMLTableSectionElement : HTMLElement {
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertRow(index: Int = definedExternally): HTMLTableSectionElement
    fun deleteRow(index: Int)
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableRowElement]
 ([https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement)) to Kotlin
 *
 */
public external abstract class HTMLTableRowElement : HTMLElement {
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertCell(index: Int = definedExternally): HTMLTableRowElement
    fun deleteCell(index: Int)
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableCellElement]
 *
 */
public external abstract class HTMLTableCellElement : HTMLElement {
    open var colSpan: Int
    open var rowSpan: Int
    open var headers: String
    open var cellIndex: Int
    open var scope: String
    open var abbr: String
    open var align: String
    open var axis: String
    open var height: String
    open var width: String
    open var ch: String
    open var chOff: String
    open var noWrap: Boolean
    open var vAlign: String
    open var bgColor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableSectionElement]
 ([https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement)) to Kotlin
 *
 */
public external abstract class HTMLTableSectionElement : HTMLElement {
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertRow(index: Int = definedExternally): HTMLTableSectionElement
    fun deleteRow(index: Int)
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableRowElement]
 ([https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement)) to Kotlin
 *
 */
public external abstract class HTMLTableRowElement : HTMLElement {
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertCell(index: Int = definedExternally): HTMLTableRowElement
    fun deleteCell(index: Int)
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableCellElement]
 *
 */
public external abstract class HTMLTableCellElement : HTMLElement {
    open var colSpan: Int
    open var rowSpan: Int
    open var headers: String
    open var cellIndex: Int
    open var scope: String
    open var abbr: String
    open var align: String
    open var axis: String
    open var height: String
    open var width: String
    open var ch: String
    open var chOff: String
    open var noWrap: Boolean
    open var vAlign: String
    open var bgColor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableSectionElement]
 ([https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement)) to Kotlin
 *
 */
public external abstract class HTMLTableSectionElement : HTMLElement {
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertRow(index: Int = definedExternally): HTMLTableSectionElement
    fun deleteRow(index: Int)
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableRowElement]
 ([https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement)) to Kotlin
 *
 */
public external abstract class HTMLTableRowElement : HTMLElement {
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertCell(index: Int = definedExternally): HTMLTableRowElement
    fun deleteCell(index: Int)
}

/**
 * Exposes the JavaScript 
 [

 [HTMLTableCellElement]
 *
 */
public external abstract class HTMLTableCellElement : HTMLElement {
    open var colSpan: Int
    open var rowSpan: Int
    open var headers: String
    open var cellIndex: Int
    open var scope: String
    open var abbr: String
    open var align: String
    open var axis: String
    open var height: String
    open var width: String
    open var ch: String
    open var chOff: String
    open var noWrap: Boolean
    open var vAlign: String
    open var bgColor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
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@kotlin.internal.InlineOnly
public inline operator fun HTMLSelectElement.get(index: Int): Element? =

asDynamic()[index] as Dynamic

@kotlin.internal.InlineOnly
public inline operator fun HTMLSelectElement.set(index: Int,

option: HTMLSelectElement?) {

asDynamic()[index] = option

 exposes the JavaScript

[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin

**Exposes the JavaScript

[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin

**Exposes the JavaScript

[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin

**Exposes the JavaScript

[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin

**Exposes the JavaScript

[HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin


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4695
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin
 */
public external abstract class ValidityState {
    open val valueMissing: Boolean
    open val typeMismatch: Boolean
    open val patternMismatch: Boolean
    open val tooLong: Boolean
    open val rangeUnderflow: Boolean
    open val rangeOverflow: Boolean
    open val stepMismatch: Boolean
    open val badInput: Boolean
    open val customError: Boolean
    open val valid: Boolean
}

/**
 * Exposes the JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin
 */
public external abstract class HTMLDetailsElement : HTMLElement {
    open var open: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

public external abstract class HTMLMenuElement : HTMLElement {
    open var type: String
    open var label: String
    open var compact: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

public external open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {
    open val relatedTarget: EventTarget?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

/**
 * Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin
 */
@/public external abstract class HTMLDialogElement : HTMLElement {
    open var open: Boolean
    open var returnVal: String
    fun show(anchor: UnionElementOrMouseEvent = definedExternally)
    fun showModals(anonymous: UnionElementOrMouseEv
    ent = definedExternally)
    fun close(returnValue: String = definedExternally)
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin
 */
public external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {
    open var src: String
    open var type: String
    open var charset: String
    open var async: Boolean
    open var defer: Boolean
    open var crossOrigin: String?
    open var text: String
    open var nonce: String
    open var event: String
    open var htmlFor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin
 */
public external abstract class HTMLTemplateElement : HTMLElement {
    open val content: DocumentFragment

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin
 */
public external abstract class HTMLSlotElement : HTMLElement {
    open var name: String
    fun

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
get() = definedExternally
set(value) = definedExternally
var control: Element? /* = null */

get() = definedExternally
set(value) = definedExternally
var label: String? /* = null */

get() = definedExternally
set(value) = definedExternally
var role: String? /* = null */

@kotlin.internal.InlineOnly
public inline fun HitRegionOptions(path: Path2D? = null, fillRule: CanvasFilRule? = CanvasFillRule.NONZERO, id: String? = ",
    val o = js("({})")
    o["path"] = path
    o["fillRule"] = fillRule
    o["id"] = id
    o["parentID"] = parentID
    o["cursor"] = cursor
    o["control"] = control
    o["label"] = label
    o["role"] = role
    return o
}

/**
 * Exposes the JavaScript
[ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin
*/
public external open class ImageData : ImageBitmapSource, TexImageSource {
    constructor(sw: Int, sh: Int) constructor(data: Uint8ClampedArray, sw: Int, sh: Int)
    open val width: Int
    open val height: Int
    open val data: Uint8ClampedArray
}

/**
 * Exposes the JavaScript
[Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin
*/
public external open class Path2D() : CanvasPath {
    constructor(path: Path2D)
    constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)
    constructor(d: String)
    fun addPath(path: Path2D, transform: dynamic = definedExternally)
    override fun closePath()
    override fun moveTo(x: Double, y: Double)
    override fun lineTo(x: Double, y: Double)
    override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)
    override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)
    override fun rect(x: Double, y: Double, width: Double, height: Double)
    override fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double)
}

/**
 * Exposes the JavaScript
[CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin
*/
public external abstract class CustomElementRegistry {
    fun define(name: String, constructor: () -> Any, options: ElementDefinitionOptions = definedExternally)
    fun get(name: String): Any
    fun whenDefined(name: String): Promise
}

public external interface ElementDefinitionOptions {
    var extends: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ElementDefinitionOptions(extends: String? = undefined): ElementDefinitionOptions {
    val o = js("({})")
    o["extends"] = extends
    return o
}

public external interface ElementContentEditable {
    var contentEditable: String
    val isContentEditable: Boolean
}

/**
 * Exposes the JavaScript
[DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin
*/
public external abstract class DataTransfer {
    open var dropEffect: String
    open var effectAllowed: String
    open val items: DataTransferItemList
    open val types: Array<String>
    open val files: FileList
    fun setDragImage(image: Element, x: Int, y: Int) fun getData(format: String): String
    fun setData(format: String, data: String)
    fun clearData(format: String = definedExternally)
}

public external interface DataTransferItemList {
    open val length: Int
    fun add(data: Any, type: String)
fun add(data: File): DataTransferItem?
fun remove(index: Int)
fun clear()

@kotlin.internal.InlineOnly
public inline operator fun DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]

/**
 * Exposes the JavaScript DataTransferItem to Kotlin
 */
public abstract class DataTransferItem {
    open val kind: String
    open val type: String
    fun getAsString(_callback: ((String) -> Unit)?)
    fun getAsFile(): File?
}

/**
 * Exposes the JavaScript DragEvent to Kotlin
 */
public open class DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {
    open val dataTransfer: DataTransfer?
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public interface DragEventInit : DragEventInit {
        var dataTransfer: DataTransfer? /* = null */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["dataTransfer"] = dataTransfer
        o["screenX"] = screenX
        o["screenY"] = screenY
        o["clientX"] = clientX
        o["clientY"] = clientY
        o["button"] = button
        o["relatedTarget"] = relatedTarget
        o["region"] = region
        o["ctrlKey"] = ctrlKey
        o["shiftKey"] = shiftKey
        o["altKey"] = altKey
        o["metaKey"] = metaKey
        o["modifierAltGraph"] = modifierAltGraph
        o["modifierCapsLock"] = modifierCapsLock
        o["modifierFn"] = modifierFn
        o["modifierFnLock"] = modifierFnLock
        o["modifierHyper"] = modifierHyper
        o["modifierNumLock"] = modifierNumLock
        o["modifierScrollLock"] = modifierScrollLock
        o["modifierSuper"] = modifierSuper
        o["modifierSymbol"] = modifierSymbol
        o["modifierSymbolLock"] = modifierSymbolLock
        o["view"] = view
        o["detail"] = detail
        o["bubbles"] = bubbles
        o["Cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /**
     * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to Kotlin
     */
    public abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers, WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance, UnionMessagePortOrWindowProxy {
        open var name: String
        open var location: String
        open var document: Document
        open var open: Boolean
        open var close: Boolean
        open var focus: Boolean
        open var history: History
        open var frames: Window
        open var length: Int
        open var top: Window
        open var parent: Window
        open var element: Element
        open var navigator: Navigator
        open var applicationCache: ApplicationCache
        open var openExternal: External
        open var scroll: Screen
        open var innerWidth: Int
        open var innerHeight: Int
        open var scrollX: Double
        open var scrollY: Double
        open var scrollXOffset: Double
        open var scrollYOffset: Double
        open var screenX: Int
        open var screenY: Int
        open var outerWidth: Int
        open var outerHeight: Int
        open var devicePixelRatio: Double
        open var close(): Unit
        open var stop(): Unit
        open var focus(): Unit
        open var blur(): Unit
        open var open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally): Window
        open var alert(): Unit
        open var alert(message: String = definedExternally): String
        open var confirm(message: String = definedExternally): Boolean
        open var prompt(message: String = definedExternally, default: String = definedExternally): String
        open var print(): Unit
        open var requestAnimationFrame(callback: (Double) -> Unit): Int
        open fun cancelAnimationFrame(handle: Int): Unit
        open fun postMessage(message: Any?): String
        open fun targetOrigin: String
        open fun transfer: Array<dynamic> = definedExternally
    }
}

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fun captureEvents()
    fun releaseEvents(query: String): MediaQueryList
    fun moveTo(x: Int, y: Int)
    fun moveBy(x: Int, y: Int)
    fun resizeTo(x: Int, y: Int)
    fun resizeBy(x: Int, y: Int)
    fun scroll(options: ScrollToOptions = definedExternally)
    fun scrollTo(x: Double, y: Double)
    fun scrollBy(options: ScrollToOptions = definedExternally)
    fun scrollBy(x: Double, y: Double)
    fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration

    fun moveTo(x: Int, y: Int)
    fun moveBy(x: Int, y: Int)
    fun resizeTo(x: Int, y: Int)
    fun resizeBy(x: Int, y: Int)
    fun scrollTo(options: ScrollToOptions = definedExternally)
    fun scrollTo(x: Double, y: Double)
    fun scrollBy(options: ScrollToOptions = definedExternally)
    fun scrollBy(x: Double, y: Double)
    fun scroll(x: Double, y: Double)
    fun scroll(y: Double)
    fun scroll(x: Double, y: Double)
    fun scrollBy(x: Double, y: Double)
    fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration

    @kotlin.internal.InlineOnly
    public inline operator fun Window.get(name: String): dynamic = asDynamic()[name]

    public abstract external class BarProp {
        open val visible: Boolean
    }

    /**
     * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin
     */
    public abstract external class History {
        open val length: Int
        open var scrollRestoration: ScrollRestoration
        open val state: Any?
        fun go(delta: Int = definedExternally)
        fun back()
        fun forward()
        fun pushState(data: Any?, title: String, url: String? = definedExternally)
        fun replaceState(data: Any?, title: String, url: String? = definedExternally)
    }

    /**
     * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin
     */
    public abstract external class Location {
        open var href: String
        open val origin: String
        open val protocol: String
        open val host: String
        open val hostname: String
        open val port: String
        open val pathname: String
        open val search: String
        open val hash: String
        open val ancestorOrigins: Array<out String>
        fun assign(url: String)
        fun replace(url: String)
        fun reload()
    }

    /**
     * Exposes the JavaScript [PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin
     */
    public open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {
        open val state: Any?

        companion object {
            val NONE: Short
            val CAPTURING_PHASE: Short
            val AT_TARGET: Short
            val BUBBLING_PHASE: Short
        }
    }

    public external interface PopStateEventInit : EventInit {
        var state: Any? /* = null */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["state"] = state
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /**
     * Exposes the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin
     */
    public open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {
        open val oldURL: String
        open val newURL: String

        companion object {
            val NONE: Short
            val CAPTURING_PHASE: Short
            val AT_TARGET: Short
            val BUBBLING_PHASE: Short
        }
    }

    public external interface HashChangeEventInit : EventInit {
        var oldURL: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
        var newURL: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["oldURL"] = oldURL
        o["newURL"] = newURL
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /**
     * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin
     */
    public open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {
        open val persisted: Boolean

        companion object {
            val NONE: Short
            val CAPTURING_PHASE: Short
            val AT_TARGET: Short
            val BUBBLING_PHASE: Short
        }
    }

    public external interface PageTransitionEventInit : EventInit {
        var persisted: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["persistent"] = persisted
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /**
     * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin
     */
    public abstract external class History {
        open val length: Int
        open var scrollRestoration: ScrollRestoration
        open val state: Any?
        fun go(delta: Int = definedExternally)
        fun back()
        fun forward()
        fun pushState(data: Any?, title: String, url: String? = definedExternally)
        fun replaceState(data: Any?, title: String, url: String? = definedExternally)
    }

    /**
     * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin
     */
    public abstract external class Location {
        open var href: String
        open val origin: String
        open val protocol: String
        open val host: String
        open val hostname: String
        open val port: String
        open val pathname: String
        open val search: String
        open val hash: String
        open val ancestorOrigins: Array<out String>
        fun assign(url: String)
        fun replace(url: String)
        fun reload()
    }

    /**
     * Exposes the JavaScript [PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin
     */
    public open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {
        open val state: Any?

        companion object {
            val NONE: Short
            val CAPTURING_PHASE: Short
            val AT_TARGET: Short
            val BUBBLING_PHASE: Short
        }
    }

    public external interface PopStateEventInit : EventInit {
        var state: Any? /* = null */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["state"] = state
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /**
     * Exposes the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin
     */
    public open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {
        open val oldURL: String
        open val newURL: String

        companion object {
            val NONE: Short
            val CAPTURING_PHASE: Short
            val AT_TARGET: Short
            val BUBBLING_PHASE: Short
        }
    }

    public external interface HashChangeEventInit : EventInit {
        var oldURL: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
        var newURL: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["oldURL"] = oldURL
        o["newURL"] = newURL
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /**
     * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin
     */
    public open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {
        open val persisted: Boolean

        companion object {
            val NONE: Short
            val CAPTURING_PHASE: Short
            val AT_TARGET: Short
            val BUBBLING_PHASE: Short
        }
    }

    public external interface PageTransitionEventInit : EventInit {
        var persisted: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["persistent"] = persisted
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }
fun close():

public external interface ImageBitmapOptions {
    var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */
    get() = definedExternally
    set(value) = definedExternally
    var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFALULT */
    get() = definedExternally
    set(value) = definedExternally
    var colorSpaceConversion: ColorSpaceConversion? /* = ColorSpaceConversion.DEFALULT */
    get() = definedExternally
    set(value) = definedExternally
    var resizeWidth: Int?
    get() = definedExternally
    set(value) = definedExternally
    var resizeHeight: Int?
    get() = definedExternally
    set(value) = definedExternally
    var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */
    get() = definedExternally
    set(value) = definedExternally
}

public external interface ImageBitmapOptions {
    var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */
    get() = definedExternally
    set(value) = definedExternally
    var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFALULT */
    get() = definedExternally
    set(value) = definedExternally
    var colorSpaceConversion: ColorSpaceConversion? /* = ColorSpaceConversion.DEFALULT */
    get() = definedExternally
    set(value) = definedExternally
    var resizeWidth: Int?
    get() = definedExternally
    set(value) = definedExternally
    var resizeHeight: Int?
    get() = definedExternally
    set(value) = definedExternally
    var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE,
    premultiplyAlpha: PremultiplyAlpha? = PremultiplyAlpha.DEFALULT,
    colorSpaceConversion: ColorSpaceConversion? = ColorSpaceConversion.DEFALULT,
    resizeWidth: Int? = undefined,
    resizeHeight: Int? = undefined,
    resizeQuality: ResizeQuality? = ResizeQuality.LOW):
    ImageBitmapOptions {
        val o = js("({})")
        o["imageOrientation"] = imageOrientation
        o["premultiplyAlpha"] = premultiplyAlpha
        o["colorSpaceConversion"] = colorSpaceConversion
        o["resizeWidth"] = resizeWidth
        o["resizeHeight"] = resizeHeight
        o["resizeQuality"] = resizeQuality
        return o
    }

/**
 * Exposes the JavaScript [MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent)
 to Kotlin
 */
public external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) :
 Event {
    var open val data: Any?
    var open val lastEventId: String
    var open val source: UnionMessagePortOrWindowProxy
    fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, source: String, lastEventId: String,
        ports: Array<MessagePort>)

    companion object {
        var NONE: Short
        var CAPTURING_PHASE: Short
        var AT_TARGET: Short
        var BUBBLING_PHASE: Short
    }

    public external interface MessageEventInit : EventInit {
        var data: Any? /* = null */
        get() = definedExternally
        set(value) = definedExternally
        var origin: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
        var lastEventId: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
        var source: UnionMessagePortOrWindowProxy? /* = null */
        get() = definedExternally
        set(value) = definedExternally
        var ports: Array<MessagePort>? /* = arrayOf() */
        get() = definedExternally
        set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
    public inline fun MessageEventInit(data: Any? = null,
        origin: String? = "",
        lastEventId: String? = "",
        source: UnionMessagePortOrWindowProxy? = null,
        ports: Array<MessagePort>? = arrayOf(),
        bubbles: Boolean? = false,
        cancelable: Boolean? = false,
        composed: Boolean? = false): MessageEventInit {
        val o = js("({})")
        o["data"] = data
        o["origin"] = origin
        o["lastEventId"] = lastEventId
        o["source"] = source
        o["ports"] = ports
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /**
     * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource)
     to Kotlin
     */
    public external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) :
 EventTarget {
    var open val data: Any?
    var open val lastEventId: String
    var open val readyState: Short
    var onopen: ((Event) -> dynamic)?
    var onmessage: ((MessageEvent) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    fun close()

    companion object {
        var CONNECTING: Short
        var OPEN: Short
        var CLOSED:
    }

    public external interface EventSourceInit {
        var withCredentials: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
    public inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {
        val o = js("({})")
        o["withCredentials"] = withCredentials
        return o
    }

    /**
     * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket)
     to Kotlin
     */
    public external open class WebSocket(url: String, protocols: dynamic = definedExternally) :
 EventTarget {
    var open val data: Any?
    var open val lastEventId: String
    var open val readyState: Short
    var onopen: ((Event) -> dynamic)?
    var onmessage: ((MessageEvent) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    fun close()

    companion object {
        var CONNECTING: Short
        var OPEN: Short
        var CLOSED:
    }

    public external interface WebSocketInit {
        var withCredentials: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
    public inline fun WebSocketInit(withCredentials: Boolean? = false): WebSocketInit {
        val o = js("({})")
        o["withCredentials"] = withCredentials
        return o
    }

    private fun toString(): String
        return toString()
String
var onmessage: ((MessageEvent) -> dynamic)?
fun close(code: Short = definedExternally, reason: String = definedExternally):
fun send(data: String) = definedExternally
fun send(data: ArrayBuffer): definedExternally
fun send(data: ArrayBufferView): definedExternally
var companion object {
    val CONNECTING = definedExternally
    val OPEN = definedExternally
    val CLOSING = definedExternally
    val CLOSED = definedExternally
}

/**
 * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin
 */
public external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event
var wasClean: Boolean
var code: Short
var reason: String

companion object {
    val NONE = definedExternally
    val CAPTURING_PHASE = definedExternally
    val AT_TARGET = definedExternally
    val BUBBLING_PHASE = definedExternally
}

/**
 * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin
 */
public external open class MessageChannel {
    open val port1: MessagePort
    open val port2: MessagePort
}

/**
 * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin
 */
public external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy,
    UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun start()
    fun close()
}

/**
 * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin
 */
public external open class BroadcastChannel(name: String) : EventTarget {
    open val name: String
    var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?)
    fun close()
}

/**
 * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin
 */
public external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope,
    WorkerLocation
var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
var onlanguagechange: ((Event) -> dynamic)?
var onoffline: ((Event) -> dynamic)?
var ononline: ((Event) -> dynamic)?
var onrejectionhandled: ((PromiseRejectionEvent) -> dynamic)?
var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?
fun importScripts(vararg urls: String)

/**
 * Exposes the JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin
 */
public external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {
    open var onmessage: ((MessageEvent) -> dynamic)?
    override var onerror: ((Event) -> dynamic)?
    fun terminate()

String
  open var codeBase: String
  open var height: String
  open var hspace: Int
  open var name:
  open var _object: String
  open var vspace: Int
  open var width: String

  companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
  }
}

/**
 * Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin
 */
public external abstract class HTMLMarqueeElement : HTMLElement {
  open var behavior: String
  open var bgColor: String
  open var direction: String
  open var height: String
  open var hspace: Int
  open var loop: Int
  open var scrollAmount: Int
  open var scrollDelay: Int
  open var trueSpeed: Boolean
  open var vspace: Int
  open var width: String
  open var onbounce: ((Event) -> dynamic)?
  open var onfinish: ((Event) -> dynamic)?
  open var onstart: ((Event) -> dynamic)?
  fun start()
  fun stop()

  companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
  }
}

/**
 * Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin
 */
public external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {
  open var cols: String
  open var rows: String

  companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
  }
}

public external abstract class HTMLFrameElement : HTMLElement {
  open var name: String
  open var scrolling: String
  open var src: String
  open var frameborder: String
  open var longDesc: String
  open var noResize: Boolean
  open val contentDocument: Document?
  open val contentWindow: Window?
  open var marginHeight: String
  open var marginWidth: String

  companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
  }
}
AddEventListenerOptions {\n    \n    val o = js("({})")\n    o["passive"] = passive\n    o["once"] = once\n    o["capture"] = capture\n    return o\n}\n\npublic external interface NonElementParentNode {\n    fun getElementById(id: String): Element?\n}

public external interface DocumentOrShadowRoot {\n    fun getFullscreenElement(): Element?\n}

/**
 * Exposes the JavaScript [DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n *\n *\n *\n *\n */
public external interface ParentNode {\n    fun children: HTMLCollection\n    fun firstElementChild: Element?\n    fun lastElementChild: Element?\n    fun childElementCount: Int\n    fun prepend(nodes: dynamic)\n    fun append(nodes: dynamic)\n    fun querySelector(selectors: String): Element?\n    fun querySelectorAll(selectors: String): NodeList\n}

/**
 * Exposes the JavaScript [NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to Kotlin\n *\n *\n *\n */
public external interface NonDocumentTypeChildNode {\n    fun previousElementSibling: Element?\n    fun nextElementSibling: Element?\n}

/**
 * Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n */
public external interface ChildNode {\n    fun before(nodes: dynamic)\n    fun after(nodes: dynamic)\n    fun replaceWith(nodes: dynamic)\n    fun remove()\n}

/**
 * Exposes the JavaScript [Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n */
public external interface Slotable {\n    fun assignedSlot: HTMLSlotElement?\n}

/**
 * Exposes the JavaScript [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n */
public abstract class NodeList : ItemArrayLike<Node> \n\n@kotlin.internal.InlineOnly
public inline operator fun NodeList.get(index: Int): Node? = asDynamic()[index]\n
/**
 * Exposes the JavaScript [HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n */
public abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection \n\n@kotlin.internal.InlineOnly
public inline operator fun HTMLCollection.get(index: Int): Element? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly
public inline operator fun HTMLCollection.get(name: String): Element? = asDynamic()[name]

/**
 * Exposes the JavaScript [MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin\n */
public open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {\n    fun observe(target: Node, options: MutationObserverInit = definedExternally)\n    fun disconnect()\n    fun takeRecords(): Array<MutationRecord>\n}

/**
 * Exposes the JavaScript [MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\n */
public external interface MutationObserverInit {\n    var childList: Boolean? /* = false */\n    var attributes: Boolean? \n    var characterData: Boolean? \n    var subtree: Boolean? /* = false */\n    var attributeOldValue: Boolean? \n    var characterDataOldValue: Boolean? \n}

@kotlin.internal.InlineOnly
public inline fun MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter: Array<String>? = undefined) {\n    val o = js("({})")\n    o["childList"] = childList\n    o["attributes"] = attributes\n    o["characterData"] = characterData\n    o["subtree"] = subtree\n    o["attributeOldValue"] = attributeOldValue\n    o["characterDataOldValue"] =
characterDataOldValue
    o["attributeFilter"] = attributeFilter
    return o
}

/**
 * Exposes the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin
 */
public external abstract class MutationRecord {
    open val type: String
    open val target: Node
    open val addedNodes: NodeList
    open val removedNodes: NodeList
    open val previousSibling: Node?
    open val nextSibling: Node?
    open val attributeName: String?
    open val attributeNamespace: String?
    open val oldValue: String?
}

/**
 * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin
 */
public external abstract class Node : EventTarget {
    open val nodeType: Short
    open val nodeName: String
    open val baseURI: String
    open val isConnected: Boolean
    open val ownerDocument: Document
    open val parentNode: Node?
    open val parentElement: Element?
    open val childNodes: NodeList
    open val firstChild: Node?
    open val lastChild: Node?
    open val previousSibling: Node?
    open val nextSibling: Node?
    open var nodeValue: String?
    open var textContent: String?
    fun getRootNode(options: GetRootNodeOptions = definedExternally): Node
    fun hasChildNodes(): Boolean
    fun normalize(): Unit
    fun cloneNode(deep: Boolean = definedExternally): Node
    fun isEqualNode(otherNode: Node?): Boolean
    fun isSameNode(otherNode: Node?): Boolean
    fun compareDocumentPosition(other: Node): Short
    fun contains(other: Node?): Boolean
    fun lookupPrefix(namespace: String?): String?
    fun lookupNamespaceURI(prefix: String?): String?
    fun isDefaultNamespace(namespace: String?): Boolean
    fun insertBefore(node: Node, child: Node?): Node
    fun appendChild(node: Node): Node
    fun replaceChild(node: Node, child: Node?): Node
    fun removeChild(child: Node): Node

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface GetRootNodeOptions {
    var composed: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun GetRootNodeOptions(composed: Boolean? = false): GetRootNodeOptions {
    val o = js("({})")
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin
 */
    open val implementation: DOMImplementation
    open val URL: String
    open val documentURI: String
    open val origin: String
    open val compatMode: String
    open val characterSet: String
    open val inputEncoding: String
    open val doctype: DocumentType?
    open val documentElement: Element?
    open val location: Location?
    var domain: String
    var referrer: String
    var cookie: String
    open val readyState: String
    var dir: String
    var body: HTMLElement?
    open val head: HTMLHeadElement?
    open val images: HTMLCollection
    open val URL: String
    open val open: Boolean
    var lastModified: String
    open val charset: String
    open val defaultView: Window?
    open val activeElement: Element?
    var onreadystatechange: ((Event) -> dynamic)?
    var onfullscreenchange: ((Event) -> dynamic)?
    var onfullscreenerror: ((Event) -> dynamic)?
    var override var
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

public interface ElementCreationOptions {
    var `is`: String?
        get() = definedExternally
        set(value) = definedExternally
}

public external interface ElementCreationOptions {
    var `is`: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ElementCreationOptions(`is`: String? = undefined): ElementCreationOptions {
    val o = js("({})")
    o["is"] = `is`
    return o
}

/**
 * Exposes the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin
 */
public external abstract class DOMImplementation {
    fun createDocumentType(qualifiedName: String, namespace: String?, qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument
    fun createDocument(title: String = definedExternally): XMLDocument
    fun createHTMLDocument(title: String = definedExternally): Document
    fun hasFeature(): Boolean
}

/**
 * Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin
 */
public external abstract class DocumentType : Node, ChildNode {
    open val name: String
    open val publicId: String
    open val systemId: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin
 */
public external open class DocumentFragment : Node, NonElementParentNode, ParentNode {
    override val children: HTMLCollection
    override val firstElementChild: Element?
    override val lastElementChild: Element?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin
 */
public external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {
    open val mode: ShadowRootMode

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [ShadowRootNode](https://developer.mozilla.org/en/docs/Web/API/ShadowRootNode) to Kotlin
 */
public external open class ShadowRootNode : ShadowRoot, ChildNode, Node {
    val mode: ShadowRootMode

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

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public external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils, UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent, UnionElementOrProcessingInstruction {

open val namespaceURI: String?
open val prefix: String?
open val localName: String
open val tagName: String
open var id: String
open var className: String
open val classList: DOMTokenList
open var slot: String
open val attributes: NamedNodeMap
open val shadowRoot: ShadowRoot?
open var scrollTop: Double
open var scrollLeft: Double
open val scrollWidth: Int
open val scrollHeight: Int
open val clientTop: Int
open val clientLeft: Int
open val clientWidth: Int
open val clientHeight: Int
open var innerHTML: String
open var outerHTML: String

fun hasAttributes(): Boolean
fun getAttributeNames(): Array<String>
fun getAttribute(qualifiedName: String): String?
fun getAttributeNS(namespace: String?, localName: String): String?
fun setAttribute(qualifiedName: String, value: String)
fun setAttributeNS(namespace: String?, qualifiedName: String, value: String)
fun removeAttribute(qualifiedName: String)
fun removeAttributeNS(namespace: String?, localName: String)
fun hasAttribute(qualifiedName: String): Boolean
fun hasAttributeNS(namespace: String?, localName: String): Boolean
fun getAttributeNode(qualifiedName: String): Attr?
fun getAttributeNodeNS(namespace: String?, localName: String): Attr?
fun setAttributeNode(attr: Attr): Attr?
fun setAttributeNodeNS(attr: Attr): Attr?
fun removeAttributeNode(attr: Attr): Attr
fun attachShadow(init: ShadowRootInit): ShadowRoot?
fun closest(selectors: String): Element?
fun matches(selectors: String): Boolean
fun webkitMatchesSelector(selectors: String): Boolean
fun getElementsByTagName(qualifiedName: String): HTMLCollection
fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection
fun getElementsByClassName(classNames: String): HTMLCollection
fun insertAdjacentElement(where: String, element: Element): Element?
fun insertAdjacentText(where: String, data: String)
fun getClientRects(): Array<DOMRect>
fun getBoundingClientRect(): DOMRect
fun scrollIntoView()
fun scrollIntoView(arg: dynamic)
fun scroll(options: ScrollToOptions = definedExternally)
fun scroll(x: Double, y: Double)
fun scrollTo(options: ScrollToOptions = definedExternally)
fun scrollTo(x: Double, y: Double)
fun scrollBy(options: ScrollToOptions = definedExternally)
fun scrollBy(x: Double, y: Double)
fun insertAdjacentHTML(position: String, text: String)
fun setPointerCapture(pointerId: Int)
fun releasePointerCapture(pointerId: Int)
fun hasPointerCapture(pointerId: Int): Boolean
fun requestFullscreen(): Promise<Unit>

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

public external interface ShadowRootInit {
var mode: ShadowRootMode?
get() = definedExternally
set(value) = definedExternally
}

val @kotlin.internal.InlineOnly

public external abstract class NamedNodeMap : ItemArrayLike<Attr> {
fun getNamedItemNS(namespace: String?, localName: String): Attr?
fun setNamedItemNS(attrib: Attr): Attr?
fun removeNamedItemNS(namespace: String?, localName: String): Attr?
fun override fun item(index: Int): Attr?
fun removeNamedItemNS(namespace: String?, localName: String): Attr?
fun getNamedItemNS(namespace: String?, localName: String): Attr?

NamedNodeMap.get(index: Int): Attr? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator
fun NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]

/**
 * Exposes the JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin
 */
public external abstract class Attr : Node {
    open val namespaceURI: String?
    open val prefix: String?
    open val localName: String
    open val name: String
    open var value: String
    open val ownerElement: Element?
    open val specified: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin
 */
public external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {
    open var data: String
    open val length: Int
    fun substringData(offset: Int, count: Int): String
    fun appendData(data: String)
    fun insertData(offset: Int, data: String)
    fun deleteData(offset: Int, count: Int)
    fun replaceData(offset: Int, count: Int, data: String)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin
 */
public external open class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {
    open val wholeText: String
    override val assignedSlot: HTMLSlotElement?
    override val previousElementSibling: Element?
    override val nextElementSibling: Element?
    fun splitText(offset: Int): Text
    override fun getBoxQuads(options: * = definedExternally): Array<DOMQuad>
    override fun convertQuadFromNode(quad: DOMQuad, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
    override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
    override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint
    override fun before(vararg nodes: dynamic)
    override fun after(vararg nodes: dynamic)
    override fun replaceWith(vararg nodes: dynamic)
    override fun remove()

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
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```kotlin
public external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {
    open val x: Double
    open val y: Double
    open val width: Double
    open val height: Double
    open val top: Double
    open val right: Double
    open val bottom: Double
    open val left: Double
}

public external interface DOMRectInit {
    var x: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var y: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var width: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var height: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {
    val o = js("({})")
    o["x"] = x
    o["y"] = y
    o["width"] = width
    o["height"] = height
    return o
}

public external interface DOMRectList : ItemArrayLike<DOMRect> {
    override fun item(index: Int): DOMRect?
}

@kotlin.internal.InlineOnly
public inline operator fun DOMRectList.get(index: Int): DOMRect? = asDynamic()[index]

/**
 * Exposes the JavaScript DOMQuad to Kotlin
 */
public external open class DOMQuad {
    constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)
    constructor(rect: DOMRectInit)
    open val p1: DOMPoint
    open val p2: DOMPoint
    open val p3: DOMPoint
    open val p4: DOMPoint
    open val bounds: DOMRectReadOnly
}

/**
 * Exposes the JavaScript DOMMatrixReadOnly to Kotlin
 */
public external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {
    open val a: Double
    open val b: Double
    open val c: Double
    open val d: Double
    open val e: Double
    open val f: Double
    open val m11: Double
    open val m12: Double
    open val m13: Double
    open val m14: Double
    open val m21: Double
    open val m22: Double
    open val m23: Double
    open val m24: Double
    open val m31: Double
    open val m32: Double
    open val m33: Double
    open val m34: Double
    open val m41: Double
    open val m42: Double
    open val m43: Double
    open val m44: Double
    open val is2D: Boolean
    open val isIdentity: Boolean
    fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix
    fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix
    fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix
    fun scaleNonUniform(scaleX: Double, scaleY: Double, scaleZ: Double = definedExternally): DOMMatrix
    fun rotate(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix
    fun rotateFromVector(x: Double, y: Double): DOMMatrix
    fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix
    fun skewX(sx: Double): DOMMatrix
    fun skewY(sy: Double): DOMMatrix
    fun multiply(other: DOMMatrix): DOMMatrix
    fun inverse(): DOMMatrix
    fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint
    fun toFloat32Array(): Float32Array
    fun toFloat64Array(): Float64Array
}
```

[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin

[DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin

[DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin

[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin

DOMMatrix\n fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix\n fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n fun skewXSelf(sx: Double): DOMMatrix\n fun skewYSelf(sy: Double): DOMMatrix\n fun invertSelf(): DOMMatrix\n fun setMatrixValue(transformList: String): DOMMatrix\n
public external interface ScrollOptions {
    var behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {
    val o = js("({})")
    o["behavior"] = behavior
    return o
    o
}

/**
 * Exposes the JavaScript [ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin
 */
public external interface ScrollToOptions : ScrollOptions {
    var left: Double?
        get() = definedExternally
        set(value) = definedExternally
    var top: Double?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["left"] = left
    o["top"] = top
    o["behavior"] = behavior
    return o
    o
}

/**
 * Exposes the JavaScript [ MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to Kotlin
 */
public external abstract class MediaQueryList : EventTarget {
    open val media: String
    open val matches: Boolean
    open var onchange: ((Event) -> dynamic)?
    fun addListener(listener: EventListener?)
    fun addListener(listener: ((Event) -> Unit)?)
    fun removeListener(listener: EventListener?)
    fun removeListener(listener: ((Event) -> Unit)?)
}

/**
 * Exposes the JavaScript [ MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin
 */
public external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit = definedExternally) : Event {
    open val media: String
    open val matches: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MediaQueryListEventInit : EventInit {
    var media: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var matches: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["media"] = media
    o["matches"] = matches
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
    o
}

/**
 * Exposes the JavaScript [ Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin
 */
public external abstract class Screen {
    open val availWidth: Int
    open val availHeight: Int
    open val width: Int
    open val height: Int
    open val colorDepth: Int
    open val pixelDepth: Int
}

/**
 * Exposes the JavaScript [ CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin
 */
public external abstract class CaretPosition {
    open val offsetNode: Node
    open val offset: Int
    fun getClientRect(): DOMRect?
}

public external interface ScrollIntoViewOptions : ScrollOptions {
    var block: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */
        get() = definedExternally
        set(value) = definedExternally
    var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["block"] = block
    o["inline"] = inline
    o["behavior"] = behavior
    return o
    o
}
override var ondblclick: ((MouseEvent) -> dynamic)?
override var ondrag:
override var ondragend: ((DragEvent) -> dynamic)?
override var ondragleave:
override var ondragover: ((DragEvent) -> dynamic)?
override var ondragstart:
override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
override var onfocus:
override var onkeydown: ((KeyboardEvent) -> dynamic)?
override var onkeypress:
override var onkeyup: ((KeyboardEvent) -> dynamic)?
override var onmousedown: ((MouseEvent) -> dynamic)?
override var onmouseenter: ((MouseEvent) -> dynamic)?
override var onmouseleave: ((MouseEvent) -> dynamic)?
override var onmousemove: ((MouseEvent) -> dynamic)?
override var onmouseout: ((MouseEvent) -> dynamic)?
override var onmouseover: ((MouseEvent) -> dynamic)?
override var onmouseup: ((MouseEvent) -> dynamic)?
override var onwheel: ((WheelEvent) -> dynamic)?
override var onpause: ((Event) -> dynamic)?
override var onplay: ((Event) -> dynamic)?
override var onplaying: ((Event) -> dynamic)?
override var onseeked: ((Event) -> dynamic)?
override var onseeking: ((Event) -> dynamic)?
override var onselect: ((Event) -> dynamic)?
override var onshow: ((Event) -> dynamic)?
override var onvolumechange: ((Event) -> dynamic)?
override var onwaiting: ((Event) -> dynamic)?
override var oncopy: ((ClipboardEvent) -> dynamic)?
override var oncut: ((ClipboardEvent) -> dynamic)?
override var onpaste: ((ClipboardEvent) -> dynamic)?
override var contentEditable: String
override val isContentEditable: Boolean
override val style: CSSStyleDeclaration
override val children: HTMLCollection
override val firstElementChild: Element?
override val lastElementChild: Element?
override val childElementCount: Int
override val previousElementSibling: Element?
override val nextElementSibling: Element?
override val assignedSlot: HTMLSlotElement?
override fun prepend(vararg nodes: dynamic): Element?
override fun append(vararg nodes: dynamic): Element?
override fun querySelector(selectors: String): Element?
override fun querySelectorAll(selectors: String): NodeList
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun after(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun querySelectorAll(selectors: String): NodeList
override fun querySelector(selectors: String): Element?
override fun append(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun append(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
override fun before(vararg nodes: dynamic): Element?
override fun replaceWith(vararg nodes: dynamic): Element?
val HAVE_FUTURE_DATA: Short
val HAVE_ENOUGH_DATA: Short
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin
 */
public external open class Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean = definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {
    override var onabort: ((Event) -> dynamic)?
    override var onblur: ((FocusEvent) -> dynamic)?
    override var oncancel: ((Event) -> dynamic)?
    override var oncanplay: ((Event) -> dynamic)?
    override var oncanplaythrough: ((Event) -> dynamic)?
    override var onerror: ((String, String, Int, Int, Any?) -> dynamic)?
    override var onfocus: ((FocusEvent) -> dynamic)?
    override var oninput: ((InputEvent) -> dynamic)?
    override var onkeydown: ((KeyboardEvent) -> dynamic)?
    override var onkeypress: ((KeyboardEvent) -> dynamic)?
    override var onkeyup: ((KeyboardEvent) -> dynamic)?
    override var onload: ((Event) -> dynamic)?
    override var onloadeddata: ((Event) -> dynamic)?
    override var onloadedmetadata: ((Event) -> dynamic)?
    override var onloadevent: ((Event) -> dynamic)?
    override var onmousedown: ((MouseEvent) -> dynamic)?
    override var onmouseenter: ((MouseEvent) -> dynamic)?
    override var onmouseleave: ((MouseEvent) -> dynamic)?
    override var onmousemove: ((MouseEvent) -> dynamic)?
    override var onmouseout: ((MouseEvent) -> dynamic)?
    override var onmouseover: ((MouseEvent) -> dynamic)?
    override var onmouseup: ((MouseEvent) -> dynamic)?
    override var onwheel: ((WheelEvent) -> dynamic)?
    override var onpause: ((Event) -> dynamic)?
    override var onplay: ((Event) -> dynamic)?
    override var onplayend: ((Event) -> dynamic)?
    override var onvolumechange: ((Event) -> dynamic)?
    override var onvolumedatasetchange: ((Event) -> dynamic)?
    override var onvolumedownload: ((Event) -> dynamic)?
    override var onvolumemove: ((Event) -> dynamic)?
    override var onpointerdown: ((PointerEvent) -> dynamic)?
    override var onpointermove: ((PointerEvent) -> dynamic)?
    override var onpointerout: ((PointerEvent) -> dynamic)?
    override var onpointercancel: ((PointerEvent) -> dynamic)?
    override var onpointerover: ((PointerEvent) -> dynamic)?
    override var onpointercancel: ((PointerEvent) -> dynamic)?
    override var onpointercancel: ((PointerEvent) -> dynamic)?
override var onpointerleave: ((PointerEvent) -> dynamic)?
override var oncorky:
override var oncopy:
override var onpaste:
override var isContentEditable: String
override val assignedSlot: HTMLSlotElement?
override fun prepend(vararg nodes: dynamic)
override fun append(vararg nodes: dynamic)
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>
override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

public external interface UnionElementOrHTMLCollection

public external interface UnionElementOrRadioNodeList

public external interface UnionHTMLOptGroupElementOrHTMLOptionElement

public external interface UnionAudioTrackOrTextTrackOrVideoTrack

public external interface UnionElementOrMouseEvent

public external interface RenderingContext

public external interface HTMLOrSVGImageElement : CanvasImageSource

public external interface CanvasImageSource : ImageBitmapSource

public interface ImageBitmapSource

public external interface UnionMessagePortOrWindowProxy

public external interface HTMLOrSVGScriptElement

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface DocumentReadyState {
companion object
}


/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanPlayTypeResult {
companion object
}

public inline val CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() = "".asDynamic().unsafeCast<CanPlayTypeResult>()

public inline val CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() = "maybe".asDynamic().unsafeCast<CanPlayTypeResult>()

public inline val CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() = "probably".asDynamic().unsafeCast<CanPlayTypeResult>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface TextTrackMode {
companion object
}

public inline val TextTrackMode.Companion.DISABLED: TextTrackMode get() =...
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n
/**
 * Exposes the JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n */
public external open class Headers(init: dynamic = definedExternally) {
    fun append(name: String, value: String)
    fun delete(name: String)
    fun get(name: String): String?
    fun has(name: String): Boolean
    fun set(name: String, value: String)
}

/**
 * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to Kotlin\n */
public external interface Body {
    val bodyUsed: Boolean
    fun arrayBuffer(): Promise<ArrayBuffer>
    fun blob(): Promise<Blob>
    fun formData(): PromiseFormData
    fun json(): PromiseAny?
    fun text(): PromiseString
}

/**
 * Exposes the JavaScript [Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n */
public external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {
    open val method: String
    open val url: String
    open val headers: Headers
    open val type: RequestType
    open val destination: RequestDestination
    open val referrer: String
    open val referrerPolicy: dynamic
    open val credentials: RequestCredentials
    open val cache: RequestCache
    open val redirect: RequestRedirect
    open val integrity: String
    open val keepalive: Boolean
    override val bodyUsed: Boolean
    fun clone(): Request
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): PromiseFormData
    override fun json(): PromiseAny?
    override fun text(): PromiseString
}

public external interface RequestInit {
    var method: String?
    var headers: dynamic
    var body: dynamic
    var referrer: String?
    var referrerPolicy: dynamic
    var mode: RequestMode?
    var credentials: RequestCredentials?
    var cache: RequestCache?
    var redirect: RequestRedirect?
    var integrity: String?
    var keepalive: Boolean?
    var window: Any?
}

@kotlin.internal.InlineOnly
public inline fun RequestInit(method: String? = undefined,
headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic = undefined,
mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? = undefined,
    val o = js("({})")
    o["method"] = method
    o["headers"] = headers
    o["body"] = body
    o["referrer"] = referrer
    o["referrerPolicy"] = referrerPolicy
    o["mode"] = mode
    o["credentials"] = credentials
    o["cache"] = cache
    o["redirect"] = redirect
    o["integrity"] = integrity
    o["keepalive"] = keepalive
    o["window"] = window
    return o
}

/**
 * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin\n */
public external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {
    open val type: ResponseType
    open val url: String
    open val redirected: Boolean
    open val status: Short
    open val ok: Boolean
    open val statusText: String
    open val headers: Headers
    open val body: dynamic
    open val trailer: PromiseHeaders
    override val bodyUsed: Boolean
    fun clone(): Response
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): PromiseFormData
    override fun json(): PromiseAny?
    override fun text(): PromiseString
}

@kotlin.internal.InlineOnly
public inline fun ResponseInit(status: Short? /* = 200 */
statusText: String? /* = "OK" */
headers: Headers? /* = undefined */
keepalive: Boolean? /* = undefined */
window: Any? /* = undefined */: ResponseInit {
    val o = js("({})")
    o["status"] = status
    o["statusText"] = statusText
    o["headers"] = headers
    o["keepalive"] = keepalive
    o["window"] = window
    return o
}

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dynamic
    get() = definedExternally
    set(value) = definedExternally
}@kotlin.internal.InlineOnly
public inline fun ResponseInit(status: Short? = 200,
statusText: String? = "OK", headers: dynamic = undefined): ResponseInit {
    val o = js("{}")
    o["status"] = status
    o["statusText"] = statusText
    o["headers"] = headers
    return o
}" please, don't implement this interface! *An@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")

public external interface RequestType {
    companion object
}

public inline val RequestType.Companion.EMPTY: RequestType get() = "".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.AUDIO: RequestType get() = "audio".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.FONT: RequestType get() = "font".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.IMAGE: RequestType get() = "image".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.SCRIPT: RequestType get() = "script".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.STYLE: RequestType get() = "style".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.TRACK: RequestType get() = "track".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.VIDEO: RequestType get() = "video".asDynamic().unsafeCast<RequestType>()

/* please, don't implement this interface! */

public external interface RequestDestination {
    companion object
}

public inline val RequestDestination.Companion.EMPTY: RequestDestination get() = "".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.DOCUMENT: RequestDestination get() = "document".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.EMBED: RequestDestination get() = "embed".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.FONT: RequestDestination get() = "font".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.IMAGE: RequestDestination get() = "image".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.MANIFEST: RequestDestination get() = "manifest".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.MEDIA: RequestDestination get() = "media".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.OBJECT: RequestDestination get() = "object".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.REPORT: RequestDestination get() = "report".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SERVICEWORKER: RequestDestination get() = "serviceworker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SHAREDWORKER: RequestDestination get() = "sharedworker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.STYLE: RequestDestination get() = "style".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.WORKER: RequestDestination get() = "worker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.XSLT: RequestDestination get() = "xslt".asDynamic().unsafeCast<RequestDestination>()

/* please, don't implement this interface! */
package org.w3c.dom.mediacapture

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*

/*
 * Copyright 2010-2019 JetBrains s.r.o. and
 * Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that
 * can be found in the license/LICENSE.txt file.
 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
// EDIT!
// See github.com/kotlin/dukat for details

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestMode {
    companion object
    val Companion.NAVIGATE: RequestMode get() = "navigate".asDynamic().unsafeCast<RequestMode>()
    val Companion.SAME_ORIGIN: RequestMode get() = "same-origin".asDynamic().unsafeCast<RequestMode>()
    val Companion.NO_CORS: RequestMode get() = "no-cors".asDynamic().unsafeCast<RequestMode>()
    val Companion.CORS: RequestMode get() = "cors".asDynamic().unsafeCast<RequestMode>()
}

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestCredentials {
    companion object
    val Companion.OMIT: RequestCredentials get() = "omit".asDynamic().unsafeCast<RequestCredentials>()
    val Companion.SAME_ORIGIN: RequestCredentials get() = "same-origin".asDynamic().unsafeCast<RequestCredentials>()
    val Companion.INCLUDE: RequestCredentials get() = "include".asDynamic().unsafeCast<RequestCredentials>()
    val Companion.RELOAD: RequestCredentials get() = "reload".asDynamic().unsafeCast<RequestCredentials>()
    val Companion.NO_CACHE: RequestCredentials get() = "no-cache".asDynamic().unsafeCast<RequestCredentials>()
    val Companion.FORCE_CACHE: RequestCredentials get() = "force-cache".asDynamic().unsafeCast<RequestCredentials>()
    val Companion.ONLY_IF_CACHED: RequestCredentials get() = "only-if-cached".asDynamic().unsafeCast<RequestCredentials>()
}

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestCache {
    companion object
    val Companion.DEFAULT: RequestCache get() = "default".asDynamic().unsafeCast<RequestCache>()
    val Companion.NO_STORE: RequestCache get() = "no-store".asDynamic().unsafeCast<RequestCache>()
    val Companion.RELOAD: RequestCache get() = "reload".asDynamic().unsafeCast<RequestCache>()
    val Companion.NO_CACHE: RequestCache get() = "no-cache".asDynamic().unsafeCast<RequestCache>()
    val Companion.FORCE_CACHE: RequestCache get() = "force-cache".asDynamic().unsafeCast<RequestCache>()
    val Companion.ONLY_IF_CACHED: RequestCache get() = "only-if-cached".asDynamic().unsafeCast<RequestCredentials>()
}

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestRedirect {
    companion object
    val Companion.FOLLOW: RequestRedirect get() = "follow".asDynamic().unsafeCast<RequestRedirect>()
    val Companion.ERROR: RequestRedirect get() = "error".asDynamic().unsafeCast<RequestRedirect>()
    val Companion.MANUAL: RequestRedirect get() = "manual".asDynamic().unsafeCast<RequestRedirect>()
}

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ResponseType {
    companion object
    val Companion.BASIC: ResponseType get() = "basic".asDynamic().unsafeCast<ResponseType>()
    val Companion.CORS: ResponseType get() = "cors".asDynamic().unsafeCast<ResponseType>()
    val Companion.DEFAULT: ResponseType get() = "default".asDynamic().unsafeCast<ResponseType>()
    val Companion.OPAQUE: ResponseType get() = "opaque".asDynamic().unsafeCast<ResponseType>()
    val Companion.OPAQUEREDIRECT: ResponseType get() = "opaqueredirect".asDynamic().unsafeCast<ResponseType>()
}

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org.w3c.dom.handling.*
import org.w3c.dom.nodefilter.*
import org.w3c.dom.svg.*
import org.w3c.html.*
import org.w3c.filesystem.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript
[MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin
 */
public external open class MediaStream() : EventTarget {
    constructor(stream: MediaStream)
    constructor(tracks: Array<MediaStreamTrack>)
    open val id: String
    open val active: Boolean
    var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?
    var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?
    fun getAudioTracks(): Array<MediaStreamTrack>
    fun getVideoTracks(): Array<MediaStreamTrack>
    fun getTracks(): Array<MediaStreamTrack>
    fun getTrackById(trackId: String): MediaStreamTrack?
    fun addTrack(track: MediaStreamTrack)
    fun removeTrack(track: MediaStreamTrack)
    fun clone(): MediaStream
}

/**
 * Exposes the JavaScript
[MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin
 */
public external abstract class MediaStreamTrack : EventTarget {
    open val kind: String
    open val id: String
    open val label: String
    open var enabled: Boolean
    open var muted: Boolean
    open var onmute: ((Event) -> dynamic)?
    open var onunmute: ((Event) -> dynamic)?
    open var readyState: MediaStreamTrackState
    open var onended: ((Event) -> dynamic)?
    open var onoverconstrained: ((Event) -> dynamic)?
    fun stop(): ()
    fun getCapabilities(): MediaStreamTrackCapabilities
    fun getConstraints(): MediaStreamTrackConstraints
    fun getSettings(): MediaStreamTrackSettings
    fun applyConstraints(constraints: MediaStreamTrackSupportedConstraints): Promise<Unit>
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 4734
get() = definedExternally
    set(value) = definedExternally
    var height: ULongRange?
    get() =
definedExternally
    set(value) = definedExternally
    var aspectRatio: DoubleRange?
    get() =
definedExternally
    set(value) = definedExternally
    var frameRate: DoubleRange?
    get() =
definedExternally
    set(value) = definedExternally
    var facingMode: Array<String>?
    get() =
definedExternally
    set(value) = definedExternally
    var resizeMode: Array<String>?
    get() =
definedExternally
    set(value) = definedExternally
    var volume: DoubleRange?
    get() =
definedExternally
    set(value) = definedExternally
    var sampleRate: ULongRange?
    get() =
definedExternally
    set(value) = definedExternally
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

**Exposes the JavaScript [MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin**

*An public external interface MediaTrackCapabilities: MediaTrackConstraintSet {
    val o = js("({})")
    o["advanced"] = advanced
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["advanced"] = advanced
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}
get() = definedExternally
set(value) = definedExternally
var resizeMode: dynamic
get() = definedExternally
set(value) = definedExternally
var sampleRate: dynamic
get() = definedExternally
set(value) = definedExternally
var sampleSize: dynamic
get() = definedExternally
set(value) = definedExternally
var echoCancellation: dynamic
get() = definedExternally
set(value) = definedExternally
var autoGainControl: dynamic
get() = definedExternally
set(value) = definedExternally
var noiseSuppression: dynamic
get() = definedExternally
set(value) = definedExternally
var latency: dynamic
get() = definedExternally
set(value) = definedExternally
var channelCount: dynamic
get() = definedExternally
set(value) = definedExternally
var deviceId: dynamic
get() = definedExternally
set(value) = definedExternally var groupId: dynamic
get() = definedExternally
set(value) = definedExternally

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    return o
}

/**
 * Exposes the JavaScript [MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin
 */
public external interface MediaTrackSettings {
    var width: Int?
        get() = definedExternally
        set(value) = definedExternally
    var height: Int?
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: Double?
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: Double?
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var resizeMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var volume: Double?
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: Int?
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: Int?
        get() = definedExternally
        set(value) = definedExternally
    var echoCancellation: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var noiseSuppression: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var latency: Double?
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: Int?
        get() = definedExternally
        set(value) = definedExternally
    var deviceId: String?
        get() = definedExternally
        set(value) = definedExternally
    var groupId: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression

Object

```
{ latency: latency
  channelCount: channelCount
  deviceId: deviceId
  groupId: groupId
  return: return
} * * * *
```
ConstrainDoubleRange {
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    o["max"] = max
    o["min"] = min
    return o
}

public external interface ULongRange {
    var max: Int?
        get() = definedExternally
        set(value) = definedExternally
    var min: Int?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ULongRange(max: Int? = undefined, min: Int? = undefined): ULongRange {
    val o = js("({})")
    o["max"] = max
    o["min"] = min
    return o
}

public external interface ConstrainULongRange : ULongRange {
    var exact: Int?
        get() = definedExternally
        set(value) = definedExternally
    var ideal: Int?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    o["max"] = max
    o["min"] = min
    return o
}

/**
 * Exposes the JavaScript
*[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to
Kotlin*/
public external interface ConstrainBooleanParameters {
    var exact: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var ideal: Boolean?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    return o
}

/**
 * Exposes the JavaScript
*[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to
Kotlin*/
public external interface ConstrainDOMStringParameters {
    var exact: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var ideal: dynamic
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    return o
}

/* please, don't implement this interface!*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaStreamTrackState {
    companion object
}

public inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>()

public inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = "ended".asDynamic().unsafeCast<MediaStreamTrackState>()

/* please, don't implement this interface!*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface VideoFacingModeEnum {
    companion object
}

public inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = "user".asDynamic().unsafeCast<VideoFacingModeEnum>()


public inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = "left".asDynamic().unsafeCast<VideoFacingModeEnum>()

public inline val VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() = "right".asDynamic().unsafeCast<VideoFacingModeEnum>()

/* please, don't implement this interface!*/
**Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)**

```
modifierFnLock\n  o[{"modifierHyper\n} = modifierHyper\n  o[{"modifierNumLock\n} = modifierNumLock\n  o[{"modifierScrollLock\n} = modifierScrollLock\n  o[{"modifierSuper\n} = modifierSuper\n
```
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 4741
newItem: String) { asDynamic()[index] = newItem }/* Exposes the JavaScript

[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin

/*@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")*/

public external interface SVGUnitTypes {
    companion object {
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
    }
}

/**
 * Exposes the JavaScript

[SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin

/*@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")*/

public external interface SVGTests {
    val requiredExtensions: SVGStringList
    val systemLanguage: SVGStringList
}

public external interface SVGFitToViewBox {
    val viewBox: SVGAnimatedRect
    val preserveAspectRatio: SVGAnimatedPreserveAspectRatio
}

/**
 * Exposes the JavaScript

[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin

/*@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")*/

public external interface SVGZoomAndPan {
    var zoomAndPan: Short

    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
    }
}

/**
 * Exposes the JavaScript

[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin

public external interface SVGURIReference {
    val href: SVGAnimatedString
}

/**
 * Exposes the JavaScript

[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin

public external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open var currentScale: Float
    open val currentTranslate: DOMPointReadOnly
    fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList
    fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList
    fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean
    fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean
    fun deselectAll()
    fun createSVGNumber(): SVGNumber
    fun createSVGLength(): SVGLength
    fun createSVGAngle(): SVGAngle
    fun createSVGPoint(): DOMPoint
    fun createSVGMatrix(): DOMMatrix
    fun createSVGRect(): DOMRect
    fun createSVGTransform(): SVGTransform
    fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform
    fun getElementById(elementId: String): Element
    fun suspendRedraw(maxWaitMilliseconds: Int): Int
    fun unsuspendRedraw(suspendHandleID: Int)
    fun unsuspendRedrawAll()
    fun forceRedraw()

    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
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public external abstract class SVGUnknownElement : SVGGraphicsElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin
 */
public external abstract class SVGDefsElement : SVGGraphicsElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin
 */
public external abstract class SVGDescElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin
 */
public external abstract class SVGMetadataElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
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[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin

```kotlin
/**
 * Exposes the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin
 */
public external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin
 */
public external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val instanceRoot: SVGElement?
    open val animatedInstanceRoot: SVGElement?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external open class SVGUseElementShadowRoot : ShadowRoot {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface SVGElementInstance {
    val correspondingElement: SVGElement?
        get() = definedExternally
    val correspondingUseElement: SVGUseElement?
        get() = definedExternally
}

[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin

*/
public
```
ShadowAnimation(source: dynamic, newTarget: dynamic) {
    open val sourceAnimation: dynamic
}

/**
 * Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin
 *
 * public abstract class SVGSwitchElement : SVGGraphicsElement {
 * companion object {
 *     open val ELEMENT_NODE: short
 *     open val ATTRIBUTE_NODE: short
 *     open val TEXT_NODE: short
 *     open val CDATA_SECTION_NODE: short
 *     open val ENTITY_REFERENCE_NODE: short
 *     open val ENTITY_NODE: short
 *     open val PROCESSING_INSTRUCTION_NODE: short
 *     open val COMMENT_NODE: short
 *     open val DOCUMENT_NODE: short
 *     open val DOCUMENT_TYPE_NODE: short
 *     open val DOCUMENT_FRAGMENT_NODE: short
 *     open val DOCUMENT_POSITION_DISCONNECTED: short
 *     open val DOCUMENT_POSITION_FOLLOWING: short
 *     open val DOCUMENT_POSITION_CONTAINS: short
 *     open val DOCUMENT_POSITION_CONTAINED_BY: short
 *     open val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: short
 * }
 *
 * public abstract class GetSVGDocument {
 *     fun getSVGDocument(): Document
 * }
 *
 * /**
 * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin
 *
 * public abstract class SVGStyleElement : SVGElement, LinkStyle {
 *     open var type: string
 *     open var media: string
 *     open var title: string
 *
 *     companion object {
 *         open val ELEMENT_NODE: short
 *         open val ATTRIBUTE_NODE: short
 *         open val TEXT_NODE: short
 *         open val CDATA_SECTION_NODE: short
 *         open val ENTITY_REFERENCE_NODE: short
 *         open val ENTITY_NODE: short
 *         open val PROCESSING_INSTRUCTION_NODE: short
 *         open val COMMENT_NODE: short
 *         open val DOCUMENT_NODE: short
 *         open val DOCUMENT_TYPE_NODE: short
 *         open val DOCUMENT_FRAGMENT_NODE: short
 *         open val DOCUMENT_POSITION_DISCONNECTED: short
 *         open val DOCUMENT_POSITION_FOLLOWING: short
 *         open val DOCUMENT_POSITION_CONTAINS: short
 *         open val DOCUMENT_POSITION_CONTAINED_BY: short
 *         open val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: short
 *     }
 *
 *     /**
 *     * Exposes the JavaScript [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin
 *
 *     public abstract class SVGTransform {
 *         open val type: short
 *         open val matrix: DOMMatrix
 *         open val angle: float
 *         fun setMatrix(matrix: DOMMatrixReadOnly)
 *         fun setTranslate(tx: float, ty: float)
 *         fun setScale(sx: float, sy: float)
 *         fun setRotate(angle: float, cx: float, cy: float)
 *         fun setSkewX(angle: float)
 *         fun setSkewY(angle: float)
 *
 *         companion object {
 *             open val SVG_TRANSFORM_UNKNOWN: short
 *             open val SVG_TRANSFORM_MATRIX: short
 *             open val SVG_TRANSFORM_TRANSLATE: short
 *             open val SVG_TRANSFORM_SCALE: short
 *             open val SVG_TRANSFORM_ROTATE: short
 *             open val SVG_TRANSFORM_SKEWX: short
 *             open val SVG_TRANSFORM_SKEWY: short
 *         }
 *
 *     }
 *
 *     /**
 *     * Exposes the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin
 *
 *     public abstract class SVGTransformList {
 *         open val length: int
 *         open val numberOfItems: int
 *
 *         fun clear()
 *         fun initialize(newItem: SVGTransform): SVGTransform
 *         fun insertItemBefore(newItem: SVGTransform, index: int): SVGTransform
 *         fun replaceItem(newItem: SVGTransform, index: int): SVGTransform
 *         fun removeItem(index: int): SVGTransform
 *         fun appendItem(newItem: SVGTransform): SVGTransform
 *         fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform
 *         fun consolidate(): SVGTransform?
 *         fun getItem(index: int): SVGTransform
 *
 *         @kotlin.internal.InlineOnly
 *         public operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]
 *
 *         @kotlin.internal.InlineOnly
 *         public operator fun SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }
 *
 *     }
 *
 *     /**
 *     * Exposes the JavaScript [SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to Kotlin
 *
 *     public abstract class SVGAnimatedTransformList {
 *         open val baseVal: SVGTransformList
 *         open val animVal: SVGTransformList
 *
 *     }
 * 
 *     @kotlin.internal.InlineOnly
 *     public operator fun SVGAnimatedTransformList.get(index: Int): SVGTransform? = asDynamic()[index]
 *
 *     @kotlin.internal.InlineOnly
 *     public operator fun SVGAnimatedTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }
 * 
 * }
/*\npublic external abstract class SVGPreserveAspectRatio {\n    open var align: Short\n    open var meetOrSlice: Short\n    companion object {\n        val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n        val SVG_PRESERVEASPECTRATIO_NONE: Short\n        val SVG_PRESERVEASPECTRATIO_XMINYMIN: Short\n        val SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n        val SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n        val SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n        val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n        val SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n        val SVG_MEETORSLICE_UNKNOWN: Short\n        val SVG_MEETORSLICE_MEET: Short\n        val SVG_MEETORSLICE_SLICE: Short\n    }
}

/**\n * Exposes the JavaScript [SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspectRatio) to Kotlin\n\n\n*/
public external abstract class SVGAnimatedPreserveAspectRatio {
    open val baseVal: SVGPreserveAspectRatio
    open val animVal: SVGPreserveAspectRatio
}

/**\n * Exposes the JavaScript [SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n\n\n*/
public external abstract class SVGPolygonElement : SVGGeometryElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val ENTITY_DECLARATION_NODE: Short
        val ENTITY_ELEMENT_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**\n * Exposes the JavaScript [SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin\n\n\n*/
public external abstract class SVGCircleElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val r: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val ENTITY_DECLARATION_NODE: Short
        val ENTITY_ELEMENT_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin

```kotlin
/*
* Public external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {
*     companion object {
*         val ELEMENT_NODE: Short
*         val ATTRIBUTE_NODE: Short
*         val TEXT_NODE: Short
*         val CDATA_SECTION_NODE: Short
*         val ENTITY_NODE: Short
*         val PROCESSING_INSTRUCTION_NODE: Short
*         val COMMENT_NODE: Short
*         val DOCUMENT_FRAGMENT_NODE: Short
*         val DOCUMENT_NODE: Short
*         val DOCUMENT_TYPE_NODE: Short
*         val DOCUMENT_POSITION_DISCONNECTED: Short
*         val DOCUMENT_POSITION_FOLLOWING: Short
*         val DOCUMENT_POSITION_Pprecedented: Short
*         val DOCUMENT_POSITION_CONTAINS: Short
*         val DOCUMENT_POSITION_CONTAINED_BY: Short
*         val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
*     } 
*     */ 
*
* Exposes the JavaScript
[SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin

```kotlin
```kotlin
/*
* Public external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {
*     companion object {
*         val ELEMENT_NODE: Short
*         val ATTRIBUTE_NODE: Short
*         val TEXT_NODE: Short
*         val CDATA_SECTION_NODE: Short
*         val ENTITY_NODE: Short
*         val PROCESSING_INSTRUCTION_NODE: Short
*         val COMMENT_NODE: Short
*         val DOCUMENT_FRAGMENT_NODE: Short
*         val DOCUMENT_NODE: Short
*         val DOCUMENT_TYPE_NODE: Short
*         val DOCUMENT_POSITION_DISCONNECTED: Short
*         val DOCUMENT_POSITION_FOLLOWING: Short
*         val DOCUMENT_POSITION_Pprecedented: Short
*         val DOCUMENT_POSITION_CONTAINS: Short
*         val DOCUMENT_POSITION_CONTAINED_BY: Short
*         val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
*     } 
*     */ 
*
* Exposes the JavaScript
[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin

```kotlin
```kotlin
/*
* Public external abstract class SVGTextContentElement : SVGGraphicsElement {
*     open val textLength: SVGAnimatedLength
*     open val lengthAdjust: SVGAnimatedEnumeration
*     fun getNumberOfChars(): Int
*     fun getComputedTextLength(): Float
*     fun getSubStringLength(charnum: Int, nchars: Int): Float
*     fun getStartPositionOfChar(charnum: Int): DOMPoint
*     fun getEndPositionOfChar(charnum: Int): DOMPoint
*     fun getExtentOfChar(charnum: Int): DOMRect
*     fun getRotationOfChar(charnum: Int): Float
*     fun getCharNumAtPosition(point: DOMPoint): Int
*     fun selectSubString(charnum: Int, nchars: Int)

*     companion object {
*         val LENGTHADJUST_UNKNOWN: Short
*         val LENGTHADJUST_SPACING: Short
*         val LENGTHADJUST_SPACINGANDGLYPHS: Short
*         val ELEMENT_NODE: Short
*         val ATTRIBUTE_NODE: Short
*         val TEXT_NODE: Short
*         val CDATA_SECTION_NODE: Short
*         val ENTITY_NODE: Short
*         val PROCESSING_INSTRUCTION_NODE: Short
*         val COMMENT_NODE: Short
*         val DOCUMENT_FRAGMENT_NODE: Short
*         val DOCUMENT_NODE: Short
*         val DOCUMENT_TYPE_NODE: Short
*         val DOCUMENT_POSITION_DISCONNECTED: Short
*         val DOCUMENT_POSITION_Persistent: Short
*         val DOCUMENT_POSITION_CONTAINS: Short
*         val DOCUMENT_POSITION_CONTAINED_BY: Short
*         val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
*     } 
*     */ 
*
* Exposes the JavaScript
[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to Kotlin

```kotlin
```kotlin
/*
* Public external abstract class SVGTextPositioningElement : SVGTextContentElement {
*     open val x: SVGAnimatedLengthList
*     open val y: SVGAnimatedLengthList
*     open val dx: SVGAnimatedLengthList
*     open val dy: SVGAnimatedLengthList
*     open val rotate: SVGAnimatedNumberList

*     companion object {
*         val LENGTHADJUST_UNKNOWN: Short
*         val LENGTHADJUST_SPACING: Short
*         val LENGTHADJUST_SPACINGANDGLYPHS: Short
*         val ELEMENT_NODE: Short
*         val ATTRIBUTE_NODE: Short
*         val TEXT_NODE: Short
*         val CDATA_SECTION_NODE: Short
*         val ENTITY_NODE: Short
*         val PROCESSING_INSTRUCTION_NODE: Short
*         val COMMENT_NODE: Short
*         val DOCUMENT_FRAGMENT_NODE: Short
*         val DOCUMENT_NODE: Short
*         val DOCUMENT_TYPE_NODE: Short
*         val DOCUMENT_POSITION_DISCONNECTED: Short
*         val DOCUMENT_POSITION_Persistent: Short
*         val DOCUMENT_POSITION_CONTAINS: Short
*         val DOCUMENT_POSITION_CONTAINED_BY: Short
*         val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
*     } 
*     */ 
* }}
```
ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript
 [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin
 */
public external abstract class SVGTextElement : SVGTextPositioningElement {
    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin
 */
public external abstract class SVGTSpanElement : SVGTextPositioningElement {
    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin
 */
public external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {
    open val startOffset: SVGAnimatedLength
    open val method: SVGAnimatedEnumeration
    open val spacing: SVGAnimatedEnumeration

    companion object {
        val TEXTPATH_METHODTYPE_UNKNOWN: Short
        val TEXTPATH_METHODTYPE_ALIGN: Short
        val TEXTPATH_SPACINGTYPE_UNKNOWN: Short
        val TEXTPATH_SPACINGTYPE_AUTO: Short
        val TEXTPATH_SPACINGTYPE_EXACT: Short
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
    }
}
DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

}*/

val x: SVGAnimatedLength
val y: SVGAnimatedLength
val width: SVGAnimatedLength
val height: SVGAnimatedLength
val preserveAspectRatio: SVGAnimatedPreserveAspectRatio
val crossOrigin: String?

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

}*/

val refX: SVGAnimatedLength
val refY: SVGAnimatedLength
val markerUnits: SVGAnimatedEnumeration
val markerWidth: SVGAnimatedLength
val markerHeight: SVGAnimatedLength
val orientType: SVGAnimatedEnumeration
val orientAngle: SVGAnimatedAngle
val orient: String
fun setOrientToAuto()
fun setOrientToAngle(angle: SVGAngle)

companion object {
val SVG_MARKERUNITS_UNKNOWN: Short
val SVG_MARKERUNITS_USERSPACEONUSE: Short
val SVG_MARKERUNITS_STROKEWIDTH: Short
val SVG_MARKER_CHILDREN: Short
val SVG_MARKER_ORIENT_UNKNOWN: Short
val SVG_MARKER_ORIENT_AUTO: Short
val SVG_MARKER_ORIENT_ANGLE: Short
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

}*/

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public external abstract class SVGSolidColorElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {
    open val gradientUnits: SVGAnimatedEnumeration
    open val gradientTransform: SVGAnimatedTransformList
    open val spreadMethod: SVGAnimatedEnumeration

    companion object {
        val SVG_SPREADMETHOD_UNKNOWN: Short
        val SVG_SPREADMETHOD_PAD: Short
        val SVG_SPREADMETHOD_REPEAT: Short
        val SVG_SPREADMETHOD_REFLECT: Short
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGLinearGradientElement : SVGGradientElement {
    open val x1: SVGAnimatedLength
    open val y1: SVGAnimatedLength
    open val x2: SVGAnimatedLength
    open val y2: SVGAnimatedLength

    companion object {
        val SVG_SPREADMETHOD_UNKNOWN: Short
        val SVG_SPREADMETHOD_PAD: Short
        val SVG_SPREADMETHOD_REPEAT: Short
        val SVG_SPREADMETHOD_REFLECT: Short
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGRadialGradientElement : SVGGradientElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val r: SVGAnimatedLength
    open val fx: SVGAnimatedLength
    open val fy: SVGAnimatedLength

    companion object {
        val SVG_SPREADMETHOD_UNKNOWN: Short
        val SVG_SPREADMETHOD_PAD: Short
        val SVG_SPREADMETHOD_REPEAT: Short
        val SVG_SPREADMETHOD_REFLECT: Short
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
object { val SVG_SPREADMETHOD_UNKNOWN: Short val SVG_SPREADMETHOD_PAD: Short
val SVG_SPREADMETHOD_REFLECT: Short val SVG_SPREADMETHOD_REPEAT: Short
val SVG_UNIT_TYPE_UNKNOWN: Short val SVG_UNIT_TYPE_USERSPACEONUSE: Short
val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short val TEXT_NODE: Short val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short val COMMENT_NODE: Short
val DOCUMENT_NODE: Short val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

public external abstract class SVGMeshGradientElement : SVGGradientElement { companion object {
val SVG_SPREADMETHOD_UNKNOWN: Short
val SVG_SPREADMETHOD_PAD: Short
val SVG_SPREADMETHOD_REFLECT: Short
val SVG_SPREADMETHOD_REPEAT: Short
val SVG_UNIT_TYPE_UNKNOWN: Short
val SVG_UNIT_TYPE_USERSPACEONUSE: Short
val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin
 */
public

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external abstract class SVGStopElement : SVGEleme{
    open val \n
}
**DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:** Short

```kotlin
val size: Number
val type: String
val isClosed: Boolean

fun close()

val options: BlobPropertyBag = definedExternally

val lastModified: Int

var onloadstart: ((ProgressEvent) -> dynamic)?
var onprogress: ((ProgressEvent) -> dynamic)?
var onload: ((Event) -> dynamic)?
var onabort: ((Event) -> dynamic)?

var onloadend: ((Event) -> dynamic)?

fun readAsArrayBuffer(blob: Blob)
fun readAsBinaryString(blob: Blob)
fun readAsText(blob: Blob, label: String = definedExternally)
fun readAsDataURL(blob: Blob)
fun abort()}

val companion object {
val EMPTY: Short
val LOADING: Short
val DONE: Short
```

**DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:** Long

```kotlin
/**
 * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin
 */
public external open class Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) :
ImageBitmapSource {
    open val size: Number
    open val type: String
    open val isClosed: Boolean

    fun close()

    fun BlobPropertyBag(type: String? = "")

    /**
     * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin
     */
    public external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {

    open val name: String
    open val lastModified: Int

    /**
     * Exposes the JavaScript [FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin
     */
    public external abstract class FileList : ItemArrayLike<File> {

        override fun item(index: Int): File?

        /**
         * Exposes the JavaScript [FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin
         */
        public external open class FileReader : EventTarget {

            open val readyState: Short
            open val result: dynamic
            open val error: dynamic

            var onloadstart: ((ProgressEvent) -> dynamic)?
            var onprogress: ((ProgressEvent) -> dynamic)?

            var onload: ((Event) -> dynamic)?
            var onabort: ((Event) -> dynamic)?

            var onloadend: ((Event) -> dynamic)?

            fun readAsArrayBuffer(blob: Blob)
            fun readAsBinaryString(blob: Blob)
            fun readAsText(blob: Blob, label: String = definedExternally)
            fun readAsDataURL(blob: Blob)

            fun abort()}

            companion object {

                val EMPTY: Short
                val LOADING: Short
                val DONE: Short
            }

            fun FileList.get(index: Int): File?

            /**
             * Exposes the JavaScript [FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin
             */
            public external open class FileReaderSync {

                fun readAsArrayBuffer(blob: Blob)
                fun readAsBinaryString(blob: Blob)
                fun readAsText(blob: Blob, label: String = definedExternally)
                fun readAsDataURL(blob: Blob)

                fun abort()}

                companion object {

                    val EMPTY: String
                    val LOADING: String
                    val DONE: String
                }

        }
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```kotlin
val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short

public external interface NotificationEventInit : ExtendableEventInit {
    open val notification: Notification
    open val action: String

    companion object {

*/
public external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :

launchJavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin

public inline fun GetNotificationOptions(tag: String? = ""):

@kotlin.internal.InlineOnly
public inline fun NotificationAction(action: String?, title: String?

actions
    return o
}

public external interface NotificationAction {
    open var action: String?
        get() = definedExternally
        set(value) = definedExternally
    open var title: String?
        get() = definedExternally
        set(value) = definedExternally
    var icon: String?
        get() = definedExternally
        set(value) = definedExternally
    var badge: String?
        get() = definedExternally
        set(value) = definedExternally
    var sound: String?
        get() = definedExternally
        set(value) = definedExternally
    var vibrate: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var timestamp: Number?
        get() = definedExternally
        set(value) = definedExternally
    var renotify: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var silent: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var noscreen: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var requireInteraction: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var sticky: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var data: Any?
        get() = definedExternally
        set(value) = definedExternally
    var actions: Array<NotificationAction>?
        get() = arrayOf()

*/
    o["dir"] = dir
    o["lang"] = lang
    o["body"] = body
    o["tag"] = tag
    o["image"] = image
    o["icon"] = icon
    o["badge"] = badge
    o["sound"] = sound
    o["vibrate"] = vibrate
    o["timestamp"] = timestamp
    o["renotify"] = renotify
    o["silent"] = silent
    o["noscreen"] = noscreen
    o["requireInteraction"] = requireInteraction
    o["sticky"] = sticky
    o["data"] = data
    o["actions"] = actions
    return o
}

public external interface NotificationOptions {
    var dir: NotificationDirection? /* = NotificationDirection.AUTO */
    var lang: String? /* = "" */
    var body: String? /* = "" */
    var title: String?
        get() = definedExternally
        set(value) = definedExternally
    var icon: String?
        get() = definedExternally
        set(value) = definedExternally
    var badge: String?
        get() = definedExternally
        set(value) = definedExternally
    var sound: String?
        get() = definedExternally
        set(value) = definedExternally
    var vibrate: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var timestamp: Number?
        get() = definedExternally
        set(value) = definedExternally
    var renotify: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var silent: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var noscreen: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var requireInteraction: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var sticky: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var data: Any?
        get() = definedExternally
        set(value) = definedExternally
    var actions: Array<NotificationAction>?
        get() = arrayOf()

*/
    o["requireInteraction"] = requireInteraction
    o["sticky"] = sticky
    o["data"] = data
    o["actions"] = actions
    return o
}

public external interface NotificationOptions {
    var dir: NotificationDirection? /* = NotificationDirection.AUTO */
    var lang: String? /* = "" */
    var body: String? /* = "" */
    var title: String?
        get() = definedExternally
        set(value) = definedExternally
    var icon: String?
        get() = definedExternally
        set(value) = definedExternally
    var badge: String?
        get() = definedExternally
        set(value) = definedExternally
    var sound: String?
        get() = definedExternally
        set(value) = definedExternally
    var vibrate: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var timestamp: Number?
        get() = definedExternally
        set(value) = definedExternally
    var renotify: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var silent: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var noscreen: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var requireInteraction: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var sticky: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var data: Any?
        get() = definedExternally
        set(value) = definedExternally
    var actions: Array<NotificationAction>?
        get() = arrayOf()

*/
    o["requireInteraction"] = requireInteraction
    o["sticky"] = sticky
    o["data"] = data
    o["actions"] = actions
    return o
}

public external interface NotificationOptions {
    var dir: NotificationDirection? /* = NotificationDirection.AUTO */
    var lang: String? /* = "" */
    var body: String? /* = "" */
    var title: String?
        get() = definedExternally
        set(value) = definedExternally
    var icon: String?
        get() = definedExternally
        set(value) = definedExternally
    var badge: String?
        get() = definedExternally
        set(value) = definedExternally
    var sound: String?
        get() = definedExternally
        set(value) = definedExternally
    var vibrate: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var timestamp: Number?
        get() = definedExternally
        set(value) = definedExternally
    var renotify: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var silent: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var noscreen: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var requireInteraction: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var sticky: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var data: Any?
        get() = definedExternally
        set(value) = definedExternally
    var actions: Array<NotificationAction>?
        get() = arrayOf()
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```kotlin
var notification: Notification?
    get() = definedExternally
    set(value) = definedExternally

var action: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["notification"] = notification
    o["action"] = action
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface NotificationPermission {
    companion object
}

public inline val NotificationPermission.Companion.DEFAULT: NotificationPermission get() = "default".asDynamic().unsafeCast<NotificationPermission>()

public inline val NotificationPermission.Companion.DENIED: NotificationPermission get() = "denied".asDynamic().unsafeCast<NotificationPermission>()

public inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() = "granted".asDynamic().unsafeCast<NotificationPermission>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface NotificationDirection {
    companion object
}

public inline val NotificationDirection.Companion.AUTO: NotificationDirection get() = "auto".asDynamic().unsafeCast<NotificationDirection>()

public inline val NotificationDirection.Companion.LTR: NotificationDirection get() = "ltr".asDynamic().unsafeCast<NotificationDirection>()

public inline val NotificationDirection.Companion.RTL: NotificationDirection get() = "rtl".asDynamic().unsafeCast<NotificationDirection>()

/*
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 * found in the LICENSE.txt file.
 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
// See github.com/kotlin/dukat for details

package org.w3c.workers

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript [ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin
 */
public external abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {
    open val scriptURL: String
    open val state: ServiceWorkerState
    open var onstatechange: ((Event) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
}

/**
 * Exposes the JavaScript [ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to Kotlin
 */
public external abstract class ServiceWorkerRegistration : EventTarget {
    open val installing: ServiceWorker?
    open val waiting: ServiceWorker?
    open val active: ServiceWorker?
    open val scope: String
    open var onupdatefound: ((Event) -> dynamic)?
    open val APISpace: dynamic
    fun update(): Promise<Unit>
    fun unregister(): Promise<Boolean>
    fun showNotification(title: String, options: NotificationOptions = definedExternally): Promise<Unit>
    fun getNotifications(filter: GetNotificationOptions = definedExternally): Promise<Array<Notification>>
    fun methodName(): Promise<dynamic>
}

/**
 * Exposes the JavaScript [ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin
 */
public external abstract class ServiceWorkerContainer : EventTarget {
    open val controller: ServiceWorker?
    open val ready: Promise<ServiceWorkerRegistration>
    open var oncontrollerchange: ((Event) -> dynamic)?
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun register(scriptURL: String, options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>
    fun
getRegistration(clientURL: String = definedExternally): Promise<Any?>
fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>
fun startMessages():
unpublic external interface RegistrationOptions {
var scope: String?
get() = definedExternally
set(value) = definedExternally
var type: WorkerType? /* = WorkerType.CLASSIC */
get() = definedExternally
set(value) = definedExternally

var@kotlin.internal.InlineOnly
unpublic inline fun RegistrationOptions(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC):
RegistrationOptions {
val o = js("{"}")

o["scope"] = scope
o["type"] = type

return o
}

*unpublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict: ServiceWorkerMessageEventInit = definedExternally): Event {
val open data: Any?
val open val origin: String?
val open lastEventId: String?
val open val source: UnionMessagePortOrServiceWorker?
val open val ports: Array<out MessagePort>?
un Companion object {
val AT_TARGET: Short = undefined
val BUBBLING_PHASE: Short = undefined
}

*unpublic external interface ServiceWorkerMessageEventInit : EventInit {
var data: Any?
get() = definedExternally
set(value) = definedExternally
var origin: String?
get() = definedExternally
set(value) = definedExternally
var lastEventId: String?
get() = definedExternally
set(value) = definedExternally
var source: UnionMessagePortOrServiceWorker?
get() = definedExternally
set(value) = definedExternally
var ports: Array<MessagePort>?
get() = definedExternally
set(value) = definedExternally

*unpublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {
open val clients:
open val registration: ServiceWorkerRegistration
open val oninstall: ((Event) -> dynamic)?
open val onactivate: ((Event) -> dynamic)?
open val onfetch: ((FetchEvent) -> dynamic)?
open val onforeignfetch: ((Event) -> dynamic)?
open val onmessage: ((MessageEvent) -> dynamic)?
open val onnotificationclick: ((NotificationEvent) -> dynamic)?
open val onnotificationclose: ((NotificationEvent) -> dynamic)?
open val onfunctionalevent: ((Event) -> dynamic)?
fun skipWaiting():
Promises<null>***/

*unpublic external abstract class Client : UnionClientOrMessagePortOrServiceWorker {
open val url: String
open val frameType: FrameType
open val id: String
fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)

*unpublic external abstract class WindowClient : Client {
open val visibilityState: dynamic
open val focused: Boolean
fun focus(): Promise<WindowClient>
fun navigate(url: String): Promise<WindowClient>

*unpublic external abstract class Clients {
fun get(id: String): Promise<Any?>
fun matchAll(options: ClientQueryOptions = definedExternally): Promise<Array<Client>>
fun openWindow(url: String): Promise<WindowClient?
fun claim(): Promise<null>
unpublic external interface ClientQueryOptions {
var includeUncontrolled:

*false */

get() = definedExternally
set(value) = definedExternally
var type: ClientType?
*/

get() = definedExternally
set(value) = definedExternally

*unpublic inline fun ClientQueryOptions(includeUncontrolled: Boolean? */

false */

get() = definedExternally
set(value) = definedExternally
var@kotlin.internal.InlineOnly
unpublic inline fun ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {
val o = js("{"}")


public external class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {
    fun waitUntil(f: Promise<Any?>): this companion object {

        /**
         * Exposes the JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin
         */
        public external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {
            fun waitUntil(f: Promise<Any?>)

            companion object {
                val NONE: Short
                val CAPTURING_PHASE: Short
                val AT_TARGET: Short
                val BUBBLING_PHASE: Short
            }
        }

        public external interface ExtendableEventInit : EventInit

        @kotlin.internal.InlineOnly
            fun waitUntil(f: Promise<Any?>)

            companion object {
                val NONE: Short
                val CAPTURING_PHASE: Short
                val AT_TARGET: Short
                val BUBBLING_PHASE: Short
            }
        }

        public external interface ForeignFetchOptions {
            var scopes: Array<String>?
                get() = definedExternally
                set(value) = definedExternally
            var origins: Array<String>?
                get() = definedExternally
                set(value) = definedExternally
        }

        @kotlin.internal.InlineOnly
        public inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {
            fun waitUntil(f: Promise_any?)

            companion object {
                val NONE: Short
                val CAPTURING_PHASE: Short
                val AT_TARGET: Short
                val BUBBLING_PHASE: Short
            }
        }

        public external interface ForeignFetchResponse {
            var response: Response?
                get() = definedExternally
                set(value) = definedExternally
            var origin: String?
                get() = definedExternally
                set(value) = definedExternally
            var headers: Array<String>?
                get() = definedExternally
                set(value) = definedExternally
        }

        @kotlin.internal.InlineOnly
            fun waitUntil(f: Promise<Any?>)

            companion object {
                val NONE: Short
                val CAPTURING_PHASE: Short
                val AT_TARGET: Short
                val BUBBLING_PHASE: Short
            }
        }
    }
}

/**
 * Exposes the JavaScript [InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin
 */
public external open class InstallEvent(type: String, eventInitDict: InstallEventInit = definedExternally) : Event {
    fun registerForeignFetch(options: ForeignFetchOptions)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface InstallEventInit : EventInit

@kotlin.internal.InlineOnly
    fun waitUntil(f: Promise<Any?>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface FetchEventInit : ExtendableEventInit {
    var request: Request?
        get() = definedExternally
        set(value) = definedExternally
    var clientId: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var isReload: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    fun waitUntil(f: Promise<Any?>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ForeignFetchEventInit : ExtendableEventInit {
    var request: Request?
        get() = definedExternally
        set(value) = definedExternally
    var origin: String? /* = "null" */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    fun waitUntil(f: Promise<Any?>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

/**
 * Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin
 */
public external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : Event {
    fun waitUntil(f: Promise<Any?>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ExtendableMessageEventInit : InstallEventInit {
    var request: Request?
        get() = definedExternally
        set(value) = definedExternally
    var headers: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ExtendableMessageEventInit(request: Request?, headers: Array<String>? = undefined): ExtendableMessageEventInit {
    fun waitUntil(f: Promise<Any?>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}
public external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally): ExtendableEvent {
    open val data: Any?
    open val origin: String
    open val lastEventId: String
    open val source: UnionClientOrMessagePortOrServiceWorker?
    open val ports: Array<MessagePort>?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ExtendableMessageEventInit : ExtendableEventInit {
    var data: Any?
        get() = definedExternally
        set(value) = definedExternally
    var origin: String?
        get() = definedExternally
        set(value) = definedExternally
    var lastEventId: String?
        get() = definedExternally
        set(value) = definedExternally
    var source: UnionClientOrMessagePortOrServiceWorker?
        get() = definedExternally
        set(value) = definedExternally
    var ports: Array<MessagePort>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["data"] = data
    o["origin"] = origin
    o["lastEventId"] = lastEventId
    o["source"] = source
    o["ports"] = ports
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript
 [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin *
 */
public external abstract class Cache {
    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any>?
    fun matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>
    fun add(request: dynamic): Promise<Unit>
    fun addAll(requests: Array<dynamic>): Promise<Unit>
    fun put(request: dynamic, response: Response): Promise<Unit>
    fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>
    fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Request>>
}

public external interface CacheQueryOptions {
    var ignoreSearch: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var ignoreMethod: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var ignoreVary: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var cacheName: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["ignoreSearch"] = ignoreSearch
    o["ignoreMethod"] = ignoreMethod
    o["ignoreVary"] = ignoreVary
    o["cacheName"] = cacheName
    return o
}

public external interface CacheBatchOperation {
    var type: String?
        get() = definedExternally
        set(value) = definedExternally
    var request: Request?
        get() = definedExternally
        set(value) = definedExternally
    var response: Response?
        get() = definedExternally
        set(value) = definedExternally
    var options: CacheQueryOptions?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["type"] = type
    o["request"] = request
    o["response"] = response
    o["options"] = options
    return o
}

/**
 * Exposes the JavaScript
 [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin *
 */
public external abstract class CacheStorage {
    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any>?
    fun has(cacheName: String): Promise<Boolean>
    fun open(cacheName: String): Promise<Cache>
    fun delete(cacheName: String): Promise<Boolean>
    fun keys(): Promise<Array<String>>
}

public external open class FunctionalEvent : ExtendableEvent {
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface UnionMessagePortOrServiceWorker

public external interface UnionClientOrMessagePortOrServiceWorker

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ServiceWorkerState {
    companion object
}

public inline val ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() = "installing".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() = "installed".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() = "activating".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() = "activated".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() = "redundant".asDynamic().unsafeCast<ServiceWorkerState>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface FrameType {
    companion object
}

public inline val FrameType.Companion.AUXILIARY: FrameType get() = "auxiliary".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.TOP_LEVEL: FrameType get() = "top-level".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.NESTED: FrameType get() = "nested".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.NONE: FrameType get() = "none".asDynamic().unsafeCast<FrameType>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ClientType {
    companion object
}

public inline val ClientType.Companion.WINDOW: ClientType get() = "window".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.WORKER: ClientType get() = "worker".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.SHAREDWORKER: ClientType get() = "sharedworker".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.ALL: ClientType get() = "all".asDynamic().unsafeCast<ClientType>()

*/
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 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
// See github.com/kotlin/dukat for details

package org.w3c.xhr

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*

/**
 * Exposes the JavaScript XMLHttpRequestEventTarget to Kotlin
 */
public external abstract class XMLHttpRequestEventTarget : EventTarget {
    open var onloadstart: ((ProgressEvent) -> dynamic)?
    open var onprogress: ((ProgressEvent) -> dynamic)?
    open var onabort: ((Event) -> dynamic)?
    open var onerror: ((Event) -> dynamic)?
    open var onload: ((Event) -> dynamic)?
    open var ontimeout: ((Event) -> dynamic)?
    open var onloadend: ((Event) -> dynamic)?
}

public external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget

/**
 * Exposes the JavaScript XMLHttpRequest to Kotlin
 */
public external open class XMLHttpRequest : XMLHttpRequestEventTarget {
    var onreadystatechange: ((Event) -> dynamic)?
    open val readyState: Short
    var timeout: Int
    var withCredentials: Boolean
    open val upload: XMLHttpRequestUpload
    open val responseURL: String
    open val status: Short
    open val onreadystatechange: ((Event) -> dynamic)?
    open val onstatechange: ((Event) -> dynamic)?
    open val onopen: String
    open val onerror: String
    open val ontimeout: String
    open val onprogress: ((ProgressEvent) -> dynamic)?
    open val onreadystatechange: ((ProgressEvent) -> dynamic)?
    open val onerror: ((Event) -> dynamic)?
    open val ontimeout: ((Event) -> dynamic)?
    open val onprogress: ((ProgressEvent) -> dynamic)?
    open val onreadystatechange: ((ProgressEvent) -> dynamic)?
    public external open class XMLHttpRequestEventTarget {
        var onreadystatechange: ((Event) -> dynamic)?
    }
fun abort() fun getResponseHeader(name: String): String?
fun getAllResponseHeaders(): String
fun overrideMimeType(mime: String)?
companion object {
    val UNSENT: Short
    val OPENED: Short
    val HEADERS_RECEIVED: Short
    val DONE: Short
}

/**
 * Exposes the JavaScript
 * [FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin
 */
public external open class FormData(form: HTMLFormElement = definedExternally) {
    fun append(name: String, value: String)
    fun append(name: String, value: Blob, filename: String = definedExternally)
    fun delete(name: String)
    fun get(name: String): dynamic
    fun getAll(name: String): Array<dynamic>
    fun has(name: String): Boolean
    fun set(name: String, value: String)
    fun set(name: String, value: Blob, filename: String = definedExternally)
}

/**
 * Exposes the JavaScript
 * [ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin
 */
public external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {
    open val lengthComputable: Boolean
    open val loaded: Number
    open val total: Number

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ProgressEventInit : EventInit {
    var lengthComputable: Boolean? /* = false */
    var loaded: Number? /* = 0 */
    var total: Number? /* = 0 */
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["lengthComputable"] = lengthComputable
    o["loaded"] = loaded
    o["total"] = total
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/* please, don't implement this
 interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface XMLHttpRequestResponseType {
    companion object
}

public inline val XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() = "".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() = "arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() = "blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() = "document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() = "json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

package kotlin

import kotlin.annotation.AnnotationRetention.BINARY
import kotlin.annotation.AnnotationRetention.SOURCE
import kotlin.annotation.AnnotationTarget
import kotlin.reflect.KClass

/**
 * Signals that the annotated
 * annotation class is a marker of an experimental API.
 *
 * Any declaration annotated with that marker is
 * considered an experimental declaration and its call sites should accept the experimental aspect of it either by
 * using [UseExperimental], or by being annotated with that marker themselves, effectively causing further
 * propagation of that experimental aspect.
 */
@Target(ANNOTATION_CLASS)
@Retention(BINARY)
@SinceKotlin("1.2")
@RequiresOptInAnnotationTarget
public annotation class UseExperimental
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```kotlin
import kotlin.annotation.AnnotationTarget.
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind
import kotlin.reflect.KClass

/**
 * Signals that the annotated annotation class is a marker of an API that requires an explicit opt-in.
 *
 * Call sites of any declaration annotated with that marker should opt in to the API either by using [OptIn],
 * or by being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement.
 *
 * This class requires opt-in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`
 * @property message message to be reported on usages of API without an explicit opt-in, or empty string for the default message.
 * @property level specifies how usages of API without an explicit opt-in are reported in code.
 */
@Target(ANNOTATION_CLASS)
@Retention(RETENTION.BINARY)
@SinceKotlin("1.3.70")
@RequireKotlin("1.3.70", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
@public annotation class RequiresOptIn(

    val message: String = "",
    val level: Level = Level.WARN
) {
    /**
     * Severity of the diagnostic that should be reported on usages which did not explicitly opted into
     * the API either by using [OptIn] or by being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement.
     */
    public enum class Level {
        /** Specifies that a warning should be reported on incorrect usages of this API. */
        WARNING,

        /** Specifies that an error should be reported on incorrect usages of this API. */
        ERROR,
    }
}
```

The default message is: "This declaration is experimental and its usage should be marked with 'Marker' or '@OptIn(Marker::class)'", where `Marker` is the opt-in requirement marker.

* @property level specifies how usages of API without an explicit opt-in are reported in code.

```kotlin
/*
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 */

package kotlin

import kotlin.annotation.AnnotationRetention.BINARY
import kotlin.annotation.AnnotationTarget.*
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind
import kotlin.reflect.KClass

/**
 * Signals that the annotated annotation class is a marker of an API that requires an explicit opt-in.
 *
 * Call sites of any declaration annotated with that marker should opt in to the API either by using [OptIn],
 * or by being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement.
 *
 * This class requires opt-in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`
 *
 * @property message message to be reported on usages of API without an explicit opt-in, or empty string for the default message.
 * @property level specifies how usages of API without an explicit opt-in are reported in code.
 */
@Target(ANNOTATION_CLASS)
@Retention(RETENTION.BINARY)
@SinceKotlin("1.3")
@RequireKotlin("1.3.70")
@public annotation class RequiresOptIn(

    val message: String = "",
    val level: Level = Level.WARN
) {
    /**
     * Severity of the diagnostic that should be reported on usages which did not explicitly opted into
     * the API either by using [OptIn] or by being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement.
     */
    public enum class Level {
        /** Specifies that a warning should be reported on incorrect usages of this API. */
        WARNING,

        /** Specifies that an error should be reported on incorrect usages of this API. */
        ERROR,
    }
}
```

The default message is: "This declaration is experimental and its usage should be marked with 'Marker' or '@OptIn(Marker::class)'", where `Marker` is the opt-in requirement marker.

* @property level specifies how usages of API without an explicit opt-in are reported in code.

```kotlin
/*
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 */

package kotlin

import kotlin.annotation.AnnotationRetention.BINARY
import kotlin.annotation.AnnotationTarget.*
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind
import kotlin.reflect.KClass

/**
 * Signals that the annotated annotation class is a marker of an API that requires an explicit opt-in.
 *
 * Call sites of any declaration annotated with that marker should opt in to the API either by using [OptIn],
 * or by being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement.
 *
 * This class requires opt-in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`
 *
 * @property message message to be reported on usages of API without an explicit opt-in, or empty string for the default message.
 * @property level specifies how usages of API without an explicit opt-in are reported in code.
 */
@Target(ANNOTATION_CLASS)
@Retention(RETENTION.BINARY)
@SinceKotlin("1.3")
@RequireKotlin("1.3.70")
@public annotation class RequiresOptIn(

    val message: String = "",
    val level: Level = Level.WARN
) {
    /**
     * Severity of the diagnostic that should be reported on usages which did not explicitly opted into
     * the API either by using [OptIn] or by being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement.
     */
    public enum class Level {
        /** Specifies that a warning should be reported on incorrect usages of this API. */
        WARNING,

        /** Specifies that an error should be reported on incorrect usages of this API. */
        ERROR,
    }
}
```
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)  4766
defaultMinCapacity = 10

* Resizable-array implementation of the deque data structure.

* The name deque is short for \"double ended queue\" and is usually pronounced \"deck\".

* The collection provides methods for convenient access to both ends.

* It also implements [MutableList] and supports efficient get/set operations by index.

@Suppress("UNCHECKED_CAST")
private inline fun internalGet(internalIndex: Int): E {
    return elementData[internalIndex] as E
}

private fun ensureCapacity(minCapacity: Int) {
    if (minCapacity < 0) throw IllegalStateException("Deque is empty.")
    if (newCapacity - minCapacity < 0)
        newCapacity = minCapacity + (minCapacity shr 1)
    if (newCapacity - maxArraySize > 0)
        newCapacity = (newCapacity - maxArraySize.shr(1))
    return newCapacity
}

private fun copyElements(newCapacity: Int) {
    val newElements = arrayOfNulls<Any?>(newCapacity)
    elementData.copyInto(newElements, 0, head, elementData.size)
    head = 0
    elementData = newElements
}

private fun newCapacity(oldCapacity: Int, minCapacity: Int): Int {
    return
}

val newCapacity = newCapacity(elementData.size, minCapacity)

if (newCapacity < 0)
    throw IllegalArgumentException("Illegal Capacity:

* Constructs an empty deque.

* Constructs a deque that contains the same elements as the specified [elements] collection in the same order.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Returns the last element, or `null` if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or throws [NoSuchElementException] if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or `null` if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or throws [NoSuchElementException] if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or throws [NoSuchElementException] if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or throws [NoSuchElementException] if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or throws [NoSuchElementException] if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or throws [NoSuchElementException] if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or throws [NoSuchElementException] if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or throws [NoSuchElementException] if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or throws [NoSuchElementException] if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.

* Constructs an empty deque.

* Ensures that the capacity of this deque is at least equal to the specified [minCapacity].

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* Returns the last element, or throws [NoSuchElementException] if this deque is empty.

* Returns the first element, or throws [NoSuchElementException] if this deque is empty.
if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")

    val element = internalGet(head)
    elementData[head] = null
    head = incremented(head)
    size -= 1
    return element
  /** * Removes the first element from this deque and returns that removed element, or
   * returns null if this deque is empty.
   * @param element the element to add
   * @return the removed element
   */
  public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()

  /** * Removes the last element from this deque and returns that removed element, or
   * throws [NoSuchElementException] if this deque is empty.
   * @param element the element to remove
   * @return the removed element
   */
  public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()

  public fun removeFirst(): E = removeFirstOrNull() ?: throw NoSuchElementException("ArrayDeque is empty.")

  public fun removeLast(): E = removeLastOrNull() ?: throw NoSuchElementException("ArrayDeque is empty.")

  public fun remove(index: Int): E = if (index == 0) removeFirst() else removeLast()

  public fun removeLast(): E = removeLastOrNull() ?: throw NoSuchElementException("ArrayDeque is empty.")

  public fun removeFirst(): E = removeFirstOrNull() ?: throw NoSuchElementException("ArrayDeque is empty.")

  public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()

  public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()

  // MutableList, MutableCollection
  public override fun add(element: E):
    require(element != null)
    if (size == capacity) resize(2 * size + 1)
    elementData[decrementedHead] = element
    head = incremented(head)
    size += 1
    return true
  }

  public override fun add(index: Int, element: E):
    require(element != null)
    if (index == size) return false
    ensureCapacity(size + 1)
    elementData[decrementedHead] = element
    head = incremented(head)
    size += 1
    return true
  }

  public override fun addAll(index: Int, elements: Collection<E>): Boolean {
    ensureCapacity(this.size + elements.size)
    copyCollectionElements(internalIndex(size), elements)
    size += elements.size
    return true
  }

  public override fun addAll(elements: Collection<E>): Boolean {
    if (elements.isEmpty()) return false
    !iterator.hasNext() break
            elementData[head] = null
            head = incremented(head)
            size -= 1
            return element
        }

        size += elements.size
        return true
    }

    public override fun addLast(element: E) {
        addLast(element) return true
    }

    public override fun addLast(elements: Collection<E>): Boolean {
        if (elements.isEmpty()) return false
        !iterator.hasNext() break
            elementData[head] = null
            head = incremented(head)
            size -= 1
            return element
        }

        size += elements.size
        return true
    }

    public override fun remove(index: Int): E {
        if (index == 0) return removeFirst()

        if (index == size - 1) return removeLast()

        return internalGet(index)
    }

    public override fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()

    public override fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()

    public fun removeLast(): E = removeLastOrNull() ?: throw NoSuchElementException("ArrayDeque is empty.")

    public fun removeFirst(): E = removeFirstOrNull() ?: throw NoSuchElementException("ArrayDeque is empty.")

    public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()

    public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()
AbstractList.checkElementIndex(index, size) |

        val tail = internalIndex(size) | val internalIndex = internalIndex(index) | val elementsSize = elements.size |
        if (index < (size + 1) shr 1) { // closer to the first element -> shift preceding |
            val shiftedHead = head - elementsSize | |
            if (internalIndex >= head) { |
                if (shiftedHead >= 0) { |
                    elementData.copyInto(elementData, shiftedHead, head, internalIndex) |
                    } else { // head < tail, insertion leads to head >= tail |
                        shiftedHead += elementData.size | val elementsToShift = internalIndex - head |
                        val shiftToBack = elementData.size - shiftedHead |
                        if (shiftToBack >= elementsToShift) { |
                            elementData.copyInto(elementData, shiftedHead, head, internalIndex) |
                            } else { |
                                elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex) |
                                } |
                            } |
                        } |
                        else { // head > tail, internalIndex > tail |
                            elementData.copyInto(elementData, shiftedHead, head, elementData.size) |
                            if (elementsSize >= internalIndex) { |
                                elementData.copyInto(elementData, elementData.size - elementsSize, 0, internalIndex) |
                                } else { |
                                    elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize) |
                                    elementData.copyInto(elementData, 0, elementsSize, internalIndex) |
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@SinceKotlin("1.3") @kotlin.internal.InlineOnly
@Suppress("UPPER_BOUND_CANT_BE_ARRAY")
@kotlin.js.JsName("arrayDeepEqualsImpl")
internal fun <T> Array<out T>.contentDeepEqualsImpl(other: Array<out T>): Boolean {
    if (this == null || other == null)
        return true
    if (this.size != other.size)
        return false

    for (i in indices) {
        val v1 = this[i]
        val v2 = other[i]
        when (v1) {
            null, is Array<*> -> if (!v1.contentDeepEquals(v2)) return false
            is ByteArray -> if (!v1.contentEquals(v2)) return false
            is ShortArray -> if (!v1.contentEquals(v2)) return false
            is IntArray -> if (!v1.contentEquals(v2)) return false
            is LongArray -> if (!v1.contentEquals(v2)) return false
            is FloatArray -> if (!v1.contentEquals(v2)) return false
            is DoubleArray -> if (!v1.contentEquals(v2)) return false
            is CharArray -> if (!v1.contentEquals(v2)) return false
            is BooleanArray -> if (!v1.contentEquals(v2)) return false
            is UByteArray -> if (!v1.contentEquals(v2)) return false
            is UShortArray -> if (!v1.contentEquals(v2)) return false
            is UIntArray -> if (!v1.contentEquals(v2)) return false
            is ULongArray -> if (!v1.contentEquals(v2)) return false
            else -> if (v1 != v2) return false
        }
    }
    return true
}

@SinceKotlin("1.3")
@kotlin.js.JsName("arrayDeepToStringImpl")
internal fun <T> Array<out T>.contentDeepToStringImpl(): String {
    val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not to overflow Int.MAX_VALUE
    return buildString(length) {
        contentDeepToStringInternal(this, mutableListOf())
    }
}

private fun <T> Array<out T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {
    if (this in processed) {
        result.append('[...]
        return
    }
    processed.add(this)
    result.append('[

    for (i in indices) {
        if (i != 0) {
            result.append(', ')
        }
        val element = this[i]
        when (element) {
            null -> element.contentDeepToStringInternal(result, processed) in ByteArray
            is Array<*> -> element.contentDeepToStringInternal(result, processed) in IntArray
            is ByteArray -> result.append(element.contentToString())
            is ShortArray -> result.append(element.contentToString())
            is IntArray -> result.append(element.contentToString())
            is LongArray -> result.append(element.contentToString())
            is FloatArray -> result.append(element.contentToString())
            is DoubleArray -> result.append(element.contentToString())
            is CharArray -> result.append(element.contentToString())
            is BooleanArray -> result.append(element.contentToString())
            is UByteArray -> result.append(element.contentToString())
            is UShortArray -> result.append(element.contentToString())
            is UIntArray -> result.append(element.contentToString())
            is ULongArray -> result.append(element.contentToString())
            else -> result.append(element.toString())
        }
    }

    result.append(']')
    processed.removeAt(processed.lastIndex)
}
collection or sequence, along with its index in that collection or sequence.

IndexedValue<out T>(public val index: Int, public val value: T)/* @property property index the index of the value in the collection or sequence.*/

* @property value the underlying value.*/

* @param thisRef the object for which the value is requested (not used).*/

* @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.*/

* @throwsNoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).*/

@file:kotlin.jvm.JvmName("MapAccessorsKt")

package

import kotlin.reflect.KProperty
import kotlin.internal.Exact

/**
 * Returns the value of the property for the given object from this read-only map.
 * @param thisRef the object for which the value is requested (not used).
 * @param property the property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.
 * @param the return the property value.
 *
 * @throwsNoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).*/

@kotlin.internal.InlineOnly
public operator fun <V, V1 : V> Map<String, Exact<V>>.getValue(thisRef: Any?, property: KProperty<*>): V1 =

@Suppress("UNCHECKED_CAST") (getOrImplicitDefault(property.name) as V1)

/**
 * Returns the value of the property for the given object from this mutable map.
 * @param thisRef the object for which the value is requested (not used).
 * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.
 * @param the property value.
 *
 * @throwsNoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).*/

@kotlin.jvm.JvmName("getVar")
@kotlin.internal.InlineOnly
public inline operator fun <V, V1 : V> MutableMap<String, out Exact<V>>.getValue(thisRef: Any?, property: KProperty<*>): V1 =

@Suppress("UNCHECKED_CAST") (getOrImplicitDefault(property.name) as V1)

@Deprecated("Use getValue() with two type parameters instead", level = DeprecationLevel.ERROR)
@kotlin.jvm.JvmName("getVarContravariant")
@kotlin.internal.LowPriorityInOverloadResolution
@kotlin.internal.InlineOnly
public inline fun <V> MutableMap<String, in V>.getValue(thisRef: Any?, property: KProperty<*>) =

@Suppress("UNCHECKED_CAST") (getOrImplicitDefault(property.name) as V)

/**
 * Stores the value of the property for the given object in this mutable map.
 * @param thisRef the object for which the value is requested (not used).
 * @param property the metadata for the property, used to get the name of property and store the value associated with that name in the map.
 * @param the value to set.
 *
 * @throwsNoSuchElementException when the map doesn't contain a value for the specified key and no implicit default was provided for that map.
 */

@kotlin.jvm.JvmName("getOrImplicitDefaultNullable")
@PublishedApi
internal fun <K, V> Map<K,V>.getOrImplicitDefault(key: K): V {
    if (this is MapWithDefault)
        return this.getOrImplicitDefault(key)

    return getOrElseNullable(key, { throw NoSuchElementException("Key $key is missing in the map.") })
}

/**
 * Returns a wrapper of this read-only map, having the implicit default value provided with the specified function [defaultValue].
 *
 * This implicit default value is used when the original map doesn't contain a value for the specified key and no implicit default was provided for that map.
 */

* @param default the implicit default value.
* @param property metadata for the property.
*
* @returns a wrapper of this read-only map, having the implicit default value provided with the specified function.
*/

* @property defaultValue the value of the property for the given object from this read-only map.
* @param thisRef the object for which the value is requested (not used).
* @throwsNoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).*/

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")

package

/**
 * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].
 *
 * This implicit default value is used when the original map doesn't contain a value for the specified key and no implicit default was provided for that map.
 */

* @param default the implicit default value.
* @param property metadata for the property.
*
* @returns a wrapper of this mutable map, having the implicit default value provided with the specified function.
*/
This implicit default value is used when the original map doesn't contain a value for the key specified and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map. When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.

```kotlin
MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> when (this) {
    // Implementation...
}
```

```kotlin
private interface MapWithDefault<K, out V> : Map<K, V> {
    // Implementation...
}
```

```kotlin
private class MapWithDefaultImpl<K, V>(public override val map: Map<K, V>, private val default: (key: K) -> V) : MapWithDefault<K, V> {
    // Implementation...
}
```

```kotlin
private class MutableMapWithDefaultImpl<K, V>(public override val map:.MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {
    // Implementation...
}
```

```kotlin
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

package kotlin.collections

import kotlin.random.Random

/**
 * Removes a single instance of the specified element from this collection, if it is present.
 * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`.
 * `@return 'true'` if the element has been successfully removed; `false` if it was not present in the collection.
 */
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.remove(element: T): Boolean =
    @Suppress("UNCHECKED_CAST") (this as.MutableCollection<out T>).remove(element)
/*\n@kotlin.internal.InlineOnly\n
public inline operator fun <T> MutableCollection<in T>.plusAssign(element: T) {
    this.add(element)
}

/**
 * Adds all elements of the given [elements] collection to this mutable collection.
 */
@kotlin.internal.InlineOnly\n
public inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Iterable<T>) {
    this.addAll(elements)
}

/**
 * Adds all elements of the given [elements] array to this mutable collection.
 */
@kotlin.internal.InlineOnly\n
public inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Array<T>) {
    this.addAll(elements)
}

/**
 * Adds all elements of the given [elements] sequence to this mutable collection.
 */
@kotlin.internal.InlineOnly\n
public inline operator fun <T>MutableCollection<in T>.plusAssign(elements: Sequence<T>) {
    this.addAll(elements)
}

/**
 * Removes a single instance of the specified [element] from this mutable collection.
 */
@kotlin.internal.InlineOnly\n
public inline operator fun <T> MutableCollection<in T>.minusAssign(element: T) {
    this.remove(element)
}

/**
 * Removes all elements contained in the given [elements] collection from this mutable collection.
 */
@kotlin.internal.InlineOnly\n
public inline operator fun <T>MutableCollection<in T>.minusAssign(elements: Iterable<T>) {
    this.removeAll(elements)
}

/**
 * Removes all elements contained in the given [elements] array from this mutable collection.
 */
@kotlin.internal.InlineOnly\n
public inline operator fun <T>MutableCollection<in T>.minusAssign(elements: Array<T>) {
    this.removeAll(elements)
}

/**
 * Removes all elements contained in the given [elements] sequence from this mutable collection.
 */
@kotlin.internal.InlineOnly\n
public inline operator fun <T>MutableCollection<in T>.minusAssign(elements: Sequence<T>) {
    this.removeAll(elements)
}

/**
 * Adds all elements of the given [elements] collection to this [MutableCollection].
 */
@kotlin.internal.InlineOnly\n
public inline operator fun <T> MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {
    return addAll(elements)
}

/**
 * Adds all elements of the given [elements] sequence to this [MutableCollection].
 */
@kotlin.internal.InlineOnly\n
public inline operator fun <T> MutableCollection<in T>.addAll(elements: Sequence<T>): Boolean {
    return addAll(elements)
}

/**
 * Adds all elements of the given [elements] array to this [MutableCollection].
 */
@kotlin.internal.InlineOnly\n
public inline operator fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {
    return addAll(elements.asList())
}

/**
 * Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.
 */
public fun <T> MutableCollection<in T>.removeAll(elements: Iterable<T>): Boolean {
    return removeAll(elements.convertToSetForSetOperationWith(this))
}

/**
 * Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.
 */
public fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {
    val set = elements.toHashSet()
    if (set.isNotEmpty())
        return removeAll(set)
    else
        return removeAllNothing()
}

/**
 * Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.
 */
public fun <T> MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {
    return removeAll(elements.asList())
}

/**
 * Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.
 */
public fun <T> MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {
    return removeAll(elements.asList())
}

private fun

MutableCollection<*>.removeAllNothing(): Boolean {
    val result = isNotEmpty() && removeAll(HashSet())
    return removeAllNothing()
}

private fun

MutableCollection<*>.removeAllAll(): Boolean {
    return removeAllAll(HashSet())
}

private fun

MutableCollection<*>.removeAllAllNothing(): Boolean {
    return removeAllAllNothing()
}

private fun

MutableCollection<*>.retainAll(): Boolean {
    return retainAllAll(HashSet())
}

private fun

MutableCollection<*>.retainAllNothing(): Boolean {
    return retainAllAllNothing()
}
given [predicate].

@return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not modified.

/**
 * Retains only elements of this [MutableList] that match the given [predicate].
 * @return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not modified.
 */
public fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)

private fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {
    var result = false
    with(iterator()) {
        while (hasNext())
            if (predicate(next()) == predicateResultToRemove) {
                remove()
                result = true
            }
    }
    return result
}

/**
 * Removes the element at the specified [index] from this list.
 * In Kotlin one should use the [MutableList.removeAt] function instead.
 */
public fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)

/**
 * Removes the last element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T> MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else removeAt(lastIndex)

/**
 * Removes the last element from this mutable list and returns that removed element, or returns `null` if this list is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T> MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)

/**
 * Removes all elements from this [MutableList] that match the given [predicate].
 * @return `true` if any element was removed from this collection, or `false` when no elements were removed and collection was not modified.
 */
public fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)

private fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {
    if (this !is RandomAccess)
        return (this as MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)

    var writeIndex: Int = 0
    for (readIndex in 0 .. lastIndex) {
        val element = this[readIndex]
        if (predicate(element) == predicateResultToRemove)
            continue

        if (writeIndex != readIndex)
            this[writeIndex] = element

        writeIndex++
    }
    if (writeIndex < size) {
        for (removeIndex in lastIndex downTo writeIndex)
            removeAt(removeIndex)
        return true
    } else {
        return false
    }
}

/**
 * Randomly shuffles elements in this mutable list using the specified [random] instance as the source of randomness.
 * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T> MutableList<T>.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

/*
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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

package kotlin.collections

private open class ReversedListReadOnly<out T>(private val delegate: List<T>) : AbstractList<T>() {
    override val size: Int get() = delegate.size
    override fun get(index: Int): T = delegate[reverseElementIndex(index)]
}

private class ReversedList<T>(private val delegate: MutableList<T>) : ReversedListReadOnly<T>(delegate)

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)
AbstractMutableList<T>()

override val size: Int get() = delegate.size

override fun get(index: Int): T = delegate.reverseElementIndex(index)

override fun clear() = delegate.clear()

override fun removeAt(index: Int): T = delegate.add(reverseElementIndex(index), element)

if (index in 0..lastIndex - index else throw IndexOutOfBoundsException("Element index $index must be in range [0..lastIndex].")

reverseElementIndex(index)

delegate.set(reverseElementIndex(index), element)

delegate.add(reversePositionIndex(index), element)

private fun List<*>::reverseElementIndex(index: Int) =
    if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException("Element index $index must be in range [0..lastIndex].")

private fun List<*>::reversePositionIndex(index: Int) =
    if (index in 0..size) size - index else throw IndexOutOfBoundsException("Position index $index must be in range [0..size].")

/**
 * Returns a reversed read-only view of the original List.
 * All changes made in the original list will be reflected in the reversed one.
 */
public fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)

/**
 * Returns a reversed mutable view of the original mutable List.
 * All changes made in the original list will be reflected in the reversed one and vice versa.
 */
@kotlin.jvm.JvmName("asReversedMutable")
public fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)

...
the [Iterator] being built * and suspends until all these values are iterated and the next one is requested.

```kotlin
    public suspend fun yieldAll(elements: Iterable<T>) {
        if (elements is Collection && elements.isEmpty()) return
        return yieldAll(elements.iterator())
    }

    /**
     * Yields potentially infinite sequence of values to the [Iterator]
     * being built * and suspends until all these values are iterated and the next one is requested.
     * The sequence can be potentially infinite.
     * @param sample samples.collections.Sequences.Building.buildSequenceYieldAll
     * @param public suspend fun yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())
     */
    public suspend fun yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())

    @Deprecated("Use SequenceScope class instead.", ReplacedWith("SequenceScope<T>"), level = DeprecationLevel.ERROR)
    public typealias SequenceBuilder<T> = SequenceScope<T>

    private typealias State = Int
    private const val State_NotReady: State = 0
    private const val State_ManyNotReady: State = 1
    private const val State_ManyReady: State = 2
    private const val State_Ready: State = 3
    private const val State_Done: State = 4
    private const val State_Failed: State = 5

    private class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {
        private var state = State_NotReady
        private var nextValue: T? = null
        private var nextIterator: Iterator<T>? = null
        var nextStep: Continuation<Unit>? = null

        override fun hasNext(): Boolean {
            while (true) {
                when (state) {
                    State_NotReady -> {}
                    State_ManyNotReady ->
                        if (nextIterator!!.hasNext()) {
                            state = State_ManyReady
                            return true
                        } else {
                            nextIterator = null
                            state = State_Done
                            return false
                        }
                    State_ManyReady -> return true
                    State_Ready, State_ManyReady -> {
                        state = State_ManyNotReady
                        yieldAll(nextStep!!) = yieldAll(nextIterator!!)
                        if (nextIterator!!.hasNext()) {
                            state = State_ManyReady
                            return true
                        } else {
                            nextIterator = null
                            state = State_Done
                            return false
                        }
                    } else -> throw exceptionalState()
                }

                state = State_Failed
                val step = nextStep!!
                nextStep = null
                step.resume(Unit)
            }
        }

        override fun next(): T {
            when (state) {
                State_NotReady, State_ManyNotReady -> return nextNotReady()
                State_ManyReady -> {
                    state = State_ManyNotReady
                    return nextIterator!!.next()
                }
                State_Ready -> {
                    state = State_NotReady
                    @Suppress("UNCHECKED_CAST")
                    val result = nextValue as T
                    nextValue = null
                    return result
                } else -> throw exceptionalState()
            }
        }

        override fun override suspend fun yield(value: T) {
            nextValue = value
            state = State_Ready
            return suspendCoroutineUninterceptedOrReturn { c ->
                coroutineContext
            }
        }
    }
```
@ExperimentalUnsignedTypes
private fun partition(
    array: UByteArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: UByteArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// UShortArray
@ExperimentalUnsignedTypes
private fun partition(
    array: UShortArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: UShortArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// UIntArray
@ExperimentalUnsignedTypes
private fun partition(
    array: UIntArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: UIntArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// ULongArray
@ExperimentalUnsignedTypes
private fun partition(
    array: ULongArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: ULongArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// Interfaces
/**
 * Sorts the given array using qsort algorithm.
 */
@ExperimentalUnsignedTypes
internal fun sortArray(array: UByteArray) = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: UShortArray) = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: UIntArray) = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: ULongArray) = quickSort(array, 0, array.size - 1)

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describe the contract of a function.

This type is used as a receiver type of the lambda function passed to the `contract` function.

* Use `[SimpleEffect.implies]` function to describe a conditional effect that happens in such case.
* The possible values of `value` are limited to `true`, `false` or `null`.
* Use `[SimpleEffect.implies]` function to describe a conditional effect that happens in such case.
* A function declaring the `callsInPlace` effect must be _inline_.

A function parameter can only be invoked during the call of the owner function, and it won't be invoked after that owner function call is completed.

The possible values of `value` are limited to `true`, `false` or `null`.

A function parameter will be invoked exactly one time.

The contract description must be at the beginning of a function and have at least one effect.

Only the top-level functions can have a contract for now.

Marks coroutine context element that
intercepts coroutine continuations.
* The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and
* intercepts all coroutine continuations with [interceptContinuation] invocations.
* [ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey], meaning that
* its implementation delegates [get][CoroutineContext.Element.get] and
* [minusKey][CoroutineContext.Element.minusKey] methods to getPolymorphicElement and [minusPolymorphicKey]
* respectively.
* [ContinuationInterceptor] subtypes can be extracted from the coroutine context using either
* [ContinuationInterceptor.Key] or subtype key if it extends [AbstractCoroutineContextKey].

```kotlin
@SinceKotlin("1.3")
public interface ContinuationInterceptor : CoroutineContext.Element {
    /**
     * The key that defines *the* context interceptor.
     */
    companion object Key : CoroutineContext.Key<ContinuationInterceptor>

    /**
     * Returns continuation that wraps the original
     * continuation instance returned by [interceptContinuation] when the original
     * completion was intercepted.
     * This function is invoked by coroutines framework when needed and the resulting continuations are
     * cached internally per each instance of the original [continuation].
     */
    public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>

    /**
     * Invoked for the
     * continuation instance returned by [interceptContinuation] when the original
     * completion was intercepted.
     * This function is invoked only if [interceptContinuation] had returned a different
     * completion instance from the one it was invoked with.
     * Default implementation does nothing.
     */
    public fun releaseInterceptedContinuation(continuation: Continuation<*>) {
        /* do nothing by default */
    }

        // getPolymorphicKey specialized for ContinuationInterceptor key
    }
    @OptIn(ExperimentalStdlibApi::class)
    public fun releaseInterceptedContinuation(continuation: Continuation<*>) { /* do nothing by default */
        public override operator fun plus(context: CoroutineContext): CoroutineContext =
        if (context === EmptyCoroutineContext) this else // fast path -- avoid
            context.fold(this) { acc, element ->
                val removed = acc.minusKey(element.key)
                if (removed === EmptyCoroutineContext) element else {
                    // make sure interceptor is always last in the context (and thus is fast to get when present)
                    val interceptor = removed[ContinuationInterceptor]
                    if (interceptor == null) CombinedContext(removed, element) else
                        acc
                    val left = removed.minusKey(ContinuationInterceptor)
                }
            }
```
EmptyCoroutineContext) CombinedContext(element, interceptor) else
CombinedContext(CombinedContext(left, element), interceptor)\n|\n|\n|\n|/*\n* Returns a context containing elements from this context, but without an element within
* the specified [key].
* An public fun minusKey(key: Key<*>): CoroutineContext\n*/\n* Key for the elements of
[CoroutineContext]. [E] is a type of element with this key.
* An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.
* An public interface Element : CoroutineContext |\n*/\n* A key of this coroutine context element.
* public val key: Key<*>\n* public override operator fun <E : Element> get(key: Key<E>): E? =\n@Suppress("UNCHECKED_CAST")\n    if (this.key == key) this as E else null\n* public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n@Suppress("UNCHECKED_CAST")\n    operation(initial, this)\n* public override fun minusKey(key: Key<*>): CoroutineContext =\n    if (this.key == key) EmptyCoroutineContext else this\n*/

*/

/**
 * Returns a context containing elements from this context, but without an element within
 * the specified [key].
 */
    public fun minusKey(key: Key<*>): CoroutineContext

    /**
     * Key for the elements of
     * [CoroutineContext]. [E] is a type of element with this key.
     */
    public interface Key<E : Element>

    /**
     * An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.
     */
    public interface Element : CoroutineContext {
        /**
         * A key of this coroutine context element.
         */
        public val key: Key<*>

        public override operator fun <E : Element> get(key: Key<E>): E? =
@Suppress("UNCHECKED_CAST")
            if (this.key == key) this as E else null\n        public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =
@Suppress("UNCHECKED_CAST")
    operation(initial, this)\n        public override
    fun <R> fold(initial: R, operation: (R, Element) -> R): R =
@Suppress("UNCHECKED_CAST")
    operation(initial, this)\n        public override
    fun minusKey(key: Key<*>): CoroutineContext =
            if (this.key == key) EmptyCoroutineContext else this\n*/
}
*/

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[key] is associated with [Element.key] via [AbstractCoroutineContextKey].
See [AbstractCoroutineContextKey] for the example of usage.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public
fun Element.minusPolymorphicKey(key: Key<*>) =
    if (key is AbstractCoroutineContextKey) {
        return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this
    }
    return if (this.key === key) EmptyCoroutineContext else this
```

```kotlin
/**
 * An empty coroutine context.
 */
@SinceKotlin("1.3")
public object EmptyCoroutineContext : CoroutineContext, Serializable {
    private const val serialVersionUID: Long = 0
    private fun readResolve(): Any = EmptyCoroutineContext

    public override fun <E : Element> get(key: Key<E>) =
        if (key is this) newLeft
        else when {
            newLeft === this -> this
            newLeft === EmptyCoroutineContext -> element
            else -> CombinedContext(newLeft, element)
        }

    private fun size(): Int {
        var cur = this
        var size = 2
        while (true) {
            cur = cur.left as? CombinedContext ?: return size
            size++
        }
    }

    private fun contains(element: Element): Boolean =
        get(element.key) == element

    private fun containsAll(context: CombinedContext): Boolean {
        var cur = context
        while (true) {
            if (!contains(cur.element)) return false
            val next = cur.left
            if (next is CombinedContext) {
                cur = next
            } else {
                return contains(next as Element)
            }
        }
    }

    override fun equals(other: Any?): Boolean =
        this === other || other is CombinedContext && other.size() == size() &&
        other.containsAll(this)

    override fun hashCode(): Int = newLeft.hashCode() + element.hashCode()

    override fun toString(): String =
        "$\text{\{"} + fold("") { acc, element ->
            if (acc.isEmpty()) element.toString() else "$acc, $element"
        } + "\text{\}}"

    private fun writeReplace(): Any {
        val n = size()
        val elements = arrayOfNulls<CoroutineContext>(n)
        var index = 0
        fold(Unit) { _, element -> elements[index++] = element }
        check(index == n)
        @Suppress("UNCHECKED_CAST")
        return Serialized(elements as Array<CoroutineContext>)
    }

    private class Serialized(val elements: Array<CoroutineContext>) : Serializable {
        companion object {
            private const val serialVersionUID: Long = 0L
        }

        private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)
    }
}
```

---

/*
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 * */

@file:kotlin.jvm.JvmName("IntrinsicsKt")
@file:kotlin.jvm.JvmMultifileClass

package kotlin.coroutines.intrinsics

import kotlin.coroutines.*
import kotlin.internal.InlineOnly

/**
 * Obtains the current continuation instance inside suspend functions and either suspends currently running coroutine or returns result immediately without suspension.
 * It means that suspend function did suspend the execution and will not return any result immediately. In this case, the [Continuation] provided to the [block] shall be resumed by invoking [Continuation.resumeWith] at some moment in the future when the result becomes available to resume the computation. Otherwise, the return value of the [block] must have a type assignable to `[T]` and represents the result of this suspend function.
 * It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.
 * As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked, its proper return
type remains on the conscience of the suspend function's author. *
* Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the
* [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext]. 
* It is the invoker's responsibility to ensure that a proper invocation context is established. 
* [Continuation.intercepted] can be used to acquire the intercepted continuation. 
* Note that it is not recommended to call either [Continuation.resume] nor 
[Continuation.resumeWithException] functions synchronously * in the same stackframe where suspension
function is run. Use [suspendCoroutine] as a safer way to obtain current
* continuation instance:
* 

```kotlin
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T =
    throw
NotImplementedError("Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic")
```

Note that it is not recommended to call either [Continuation.resume] nor
[Continuation.resumeWithException] functions synchronously
* in the same stackframe where suspension
function is run. Use [suspendCoroutine] as a safer way to obtain current
* continuation instance:

```kotlin
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T =
    throw
NotImplementedError("Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic")
```

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 */

package kotlin.experimental

/** Performs a bitwise AND operation between the two values. */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline infix fun Byte.and(other: Byte): Byte =
    (this.toInt() and other.toInt()).toByte()

/** Performs a bitwise OR operation between the two values. */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline infix fun Byte.or(other: Byte): Byte =
    (this.toInt() or other.toInt()).toByte()

/** Performs a bitwise XOR operation between the two values. */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline infix fun Byte.xor(other: Byte): Byte =
    (this.toInt() xor other.toInt()).toByte()

/** Inverts the bits in this value. */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun Byte.inv(): Byte =
    (this.toInt().inv()).toByte()

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 * by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

package kotlin.experimental

/** The experimental marker for type
 * inference augmenting annotations. */
@Suppress("DEPRECATION")
@Experimental(level
Experimental.Level.ERROR

@RequiresOptIn(level = RequiresOptIn.Level.ERROR)
@MustBeDocumented
@Retention(AnnotationRetention.BINARY)
@Target(AnnotationTarget.ANNOTATION_CLASS)
@SinceKotlin("1.3")
public annotation class ExperimentalTypeInference

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 * LICENSE.txt file.
 */

package kotlin.internal

/**
 * Specifies that the corresponding type should be ignored during type inference.
 */
@Target(AnnotationTarget.TYPE)
@Retention(AnnotationRetention.BINARY)
internal annotation class NoInfer

/**
 * Specifies that the constraint built for the type during type inference should be an equality one.
 */
@Target(AnnotationTarget.TYPE)
@Retention(AnnotationRetention.BINARY)
internal annotation class Exact

/**
 * Specifies that a corresponding member has the lowest priority in overload resolution.
 */
@Target(AnnotationTarget.AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)
@Retention(AnnotationRetention.BINARY)
internal annotation class LowPriorityInOverloadResolution

/**
 * Specifies that a corresponding member has the highest priority in overload resolution. Effectively this means that
 * an extension annotated with this annotation will win in overload resolution over a member with the same signature.
 */
@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)
@Retention(AnnotationRetention.BINARY)
internal annotation class HidesMembers

/**
 * The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).
 */
@Target(AnnotationTarget.TYPE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
internal annotation class OnlyInputTypes

/**
 * Specifies that this function should not be called directly without inlining.
 */
@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)
@Retention(AnnotationRetention.BINARY)
internal annotation class InlineOnly

/**
 * Specifies that this declaration can have dynamic receiver type.
 */
@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)
@Retention(AnnotationRetention.BINARY)
internal annotation class DynamicExtension

/**
 * The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property,
 * the backing field of which is accessible at the point where the corresponding
 * argument is passed.
 */
@Target(AnnotationTarget.VALUE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.2")
internal annotation class AccessibleLateinitPropertyLiteral

/**
 * Specifies that this declaration is only completely supported since the specified version.
 * The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.
 * The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.
 * [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.
 * Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going to treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports
 * [RequireKotlinVersionKind.LANGUAGE_VERSION], [RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].
 * If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin), Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement.
 * This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.
 */
@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR, AnnotationTarget.TYPEALIAS)
@Retention(AnnotationRetention.SOURCE)
@Repeatable
**Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)**

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@Deprecated("Use Default companion object instead", level = DeprecationLevel.HIDDEN)

public object Companion : Random() {
    override fun nextBits(bitCount: Int): Int = Default.nextBits(bitCount)
}

/**
 * Returns a repeatable random number generator seeded with the given [seed] `Int` value.
 * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.
 * @ Note: Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return a sequence of values different from the current one for a given seed.
 * @sample

@sinceKotlin("1.3")
public fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))

/**
 * Returns a repeatable random number generator seeded with the given [seed] `Long` value.
 * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.
 * @ Note: Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return a sequence of values different from the current one for a given seed.
 * @sample

@sinceKotlin("1.3")
public fun Random(seed: Long): Random = XorWowRandom(seed.toInt(), seed.shr(32).toInt())

/**
 * Gets the next random `Int` from the random number generator in the specified [range].
 * Generates an `Int` random value uniformly distributed in the specified [range]:
 * `range.start` inclusive to `range.endInclusive` inclusive.
 * @throws IllegalArgumentException if [range] is empty.
 * @sample

@sinceKotlin("1.3")
@experimentalUnsignedTypes
public fun Random.nextInt(range: IntRange): Int = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)
    range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1
    else -> nextInt()
}

/**
 * Gets the next random `Long` from the random number generator in the specified [range].
 * Generates a `Long` random value uniformly distributed in the specified [range]:
 * `range.start` inclusive to `range.endInclusive` inclusive.
 * @throws IllegalArgumentException if [range] is empty.
 * @sample

@sinceKotlin("1.3")
@experimentalUnsignedTypes
public fun Random.nextLong(range: LongRange): Long = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < Long.MAX_VALUE -> nextLong(range.first, range.last + 1)
    range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) + 1
    else -> nextLong()
}

internal expect fun defaultPlatformRandom(): Random
internal expect fun doubleFromParts(hi26: Int, low27: Int): Double

@useExperimental(ExperimentalStdlibApi::class)
internal fun fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()

internal fun Int.takeUpperBits(bitCount: Int): Int =
    this.ushr(32 - bitCount) and (-(bitCount).shr(31))

internal fun checkRangeBounds(from: Int, until: Int) = require(until > from) {
    boundsErrorMessage(from, until)
}
internal fun checkRangeBounds(from: Long, until: Long) = require(until > from) {
    boundsErrorMessage(from, until)
}
internal fun checkRangeBounds(from: Double, until: Double) = require(until > from) {
    boundsErrorMessage(from, until)
}

internal fun boundsErrorMessage(from: Any, until: Any) = "Random range is empty: [${from}, ${until})."

/**
 * Gets the next random `UInt` from the random number generator.
 * Generates a `UInt` random value uniformly distributed between `UInt.MIN_VALUE` and `UInt.MAX_VALUE` (inclusive).
 * @sample

@sinceKotlin("1.3")
@experimentalUnsignedTypes
public fun Random.nextUInt(): UInt =
    nextInt().toUInt()

/**
 * Gets the next random `UInt` from the random number generator less than the specified [until] bound.
 * Generates a `UInt` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).
 * @throws IllegalArgumentException if [until] is zero.
 * @sample

@sinceKotlin("1.3")
@experimentalUnsignedTypes
public fun Random.nextUInt(until: UInt): UInt =
    nextUInt(0u, until)

/**
 * Gets the next random `UInt` from the random number generator in the specified range.
 * Generates a `UInt` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.
 * @throws IllegalArgumentException if [from] is greater than or equal to [until].
 * @sample

@sinceKotlin("1.3")
@experimentalUnsignedTypes
public fun Random.nextUInt(from: UInt, until: UInt): UInt =
    nextUIntRangeBounds(from, until)

@sinceKotlin("1.3")
@experimentalUnsignedTypes
public fun Random.nextUIntRangeBounds(from: UInt, until: UInt): UInt =
    checkUIntRangeBounds(from, until) xor Int.MIN_VALUE

@sinceKotlin("1.3")
@experimentalUnsignedTypes
public fun Random.nextIntRange(range: IntRange): Int =
    when {
        range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
        range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)
        range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1
        else -> nextInt()
    }

@sinceKotlin("1.3")
@experimentalUnsignedTypes
public fun Random.nextLongRange(range: LongRange): Long =
    when {
        range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
        range.last < Long.MAX_VALUE -> nextLong(range.first, range.last + 1)
        range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) + 1
        else -> nextLong()
    }

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signedUntil = until.toInt() xor Int.MIN_VALUE\n  val signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\n  return signedResult.toUInt()\n\nval *\n  Generates a [UInt] random value uniformly distributed in the specified [range].\n  *\n  *@throws IllegalArgumentException if [range] is empty.\n
fun Random.nextUInt(range: UIntRange): UInt = when {\n    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < UInt.MAX_VALUE -> nextUInt(range.first, range.last + 1u)\n    range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) + 1u\n    else -> nextUInt(0u, UInt.MAX_VALUE)\n  }\n
fun Random.nextULong(): ULong = nextLong().toULong()\n
fun Random.nextULong(until: ULong): ULong = nextULong(0u, until)\n
fun Random.nextULong(from: ULong, until: ULong): ULong {
    checkULongRangeBounds(from, until)\n
    val signedFrom = from.toLong() xor Long.MIN_VALUE\n    val signedUntil = until.toLong() xor Long.MIN_VALUE\n
    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n    return signedResult.toULong()\n\n    *\n    *@throws IllegalArgumentException if [range] is empty.\n
    *\n    *@SinceKotlin("1.3")\n    *@ExperimentalUnsignedTypes

https://www.jstatsoft.org/v08/i14/paper/

internal class XorWowRandom
internal constructor(
    private var x: Int,
    private var y: Int,
    private var z: Int,
    private var w: Int,
    private var v: Int,
    private var addend: Int
) : Random() {

    internal constructor(seed1: Int, seed2: Int) :
            this(seed1, seed2, 0, 0,
    seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))

    init {
        require((x or y or z or w or v) != 0) { "Initial state
        must have at least one non-zero element." }

        // some trivial seeds can produce several values with zeroes in
        upper bits, so we discard first 64\n
        repeat(64) { nextInt() }
    }

    override fun nextInt(): Int {
        // Equivalent to the xorxow algorithm
        // Soft. 8, 14, p. 5\n
        var t = x
        t = t xor (t ushr 2)
        x = y
        y = z
        z = w
        w = v
        v = t
        v0 = v
        w = v0
        t = (t
        xor (t shl 1)) xor v0 xor (v0 shl 4)
        v = t
        addend += 362437
        return t + addend
    }

    override
    fun nextBits(bitCount: Int): Int =
        nextInt().takeUpperBits(bitCount)
}

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override fun isEmpty(): Boolean = !_start <= _endInclusive

override fun equals(other: Any?): Boolean {
    return other is ClosedFloatRange && (isEmpty() && other.isEmpty() ||
            _start == other._start && _endInclusive == other._endInclusive)
}

override fun hashCode(): Int {
    return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()
}

override fun toString(): String = "$_start..$_endInclusive"

/**
 * Creates a range from this Float value to the specified that value.
 * Numbers are compared with the ends of this range according to IEEE-754.
 * @see ClosedRange
 */
@SinceKotlin("1.1")
public operator fun Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)

/**
 * Returns true if this iterable range contains the specified element.
 * Always returns false if the element is null.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
    element != null && contains(element)

internal fun checkStepIsPositive(isPositive: Boolean, step: Number) {
    if (!isPositive)
        throw IllegalArgumentException("Step must be positive, was: $step.")
}

/**
 * Casts the given value to the class represented by this KClass object.
 * Throws an exception if the value is null or if it is not an instance of this class.
 * This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.
 * @see KClass.isInstance
 * @see KClass.safeCast
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@LowPriorityInOverloadResolution
fun <T : Any> KClass<T>.cast(value: Any?): T {
    if (!isInstance(value)) throw ClassCastException("Value cannot be cast to $qualifiedName")
    return value as T
}

/**
 * Casts the given value to the class represented by this KClass object.
 * Returns null if the value is null or if it is not an instance of this class.
 * This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.
 * @see KClass.isInstance
 * @see KClass.cast
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@LowPriorityInOverloadResolution
fun <T : Any> KClass<T>.safeCast(value: Any?): T? {
    return if (isInstance(value)) value as T else null
}

/**
 * Returns a runtime representation of the given reified type T as an instance of KType.
 * @see KType
 */
@Suppress("unused") // KT-12448
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <reified T> typeOf(): KType =
    throw UnsupportedOperationException("This function is implemented as an intrinsic on all supported platforms.")

/**
 * An object to which char sequences and values can be appended.
 */
expect interface Appendable {
    /**
     * Appends the specified character [value] to this Appendable and returns this instance.
     * @param value the character to append.
     */
    fun append(value: Char): Appendable

    /**
     * Appends the specified character sequence [value] to this Appendable and returns this instance.
     * @param value the character sequence to append. If [value] is null, then the four characters "null" are appended to this Appendable.
     */
    fun append(value: CharSequence?): Appendable

    /**
     * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.
     * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of
     * @param value the character sequence from which a subsequence is appended. If [value] is null, then characters are appended as if [value] contained the four characters "null".
     * @param startIndex the beginning (inclusive) of the subsequence to append.
     * @param endIndex the end (exclusive) of the subsequence to append.
     */
    fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable
}

*\n
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range of the [value] character sequence indices or when `startIndex > endIndex`.

```kotlin
    fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable
```

*Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.*

```kotlin
    fun appendRange(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable
```

*Appends all arguments to the given Appendable.*

```kotlin
    public fun <T : Appendable> T.appendRange(value: CharSequence?, startIndex: Int, endIndex: Int) : T {
```

*Appends a subsequence of the specified character sequence [value] to this Appendable and returns this Appendable.*

```kotlin
    for (item in value)
```

*Appends all arguments to the given Appendable.*

```kotlin
    internal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence)?) {
```

*Appends a subsequence of the specified character sequence [value] to this Appendable and returns this Appendable.*

```kotlin
    when {
        transform != null -> append(transform(element))
        element is CharSequence? -> append(element.toString())
        element is Char -> append(element.toString())
        else -> openParen
    }
```

*Concatenates this Char and a String.*

```kotlin
    @kotlin.internal.InlineOnly
    @operator fun Char.plus(other: String): String = this.toString() + other
```

*Returns `true` if this character is equal to the [other] character, optionally ignoring character case.*

```kotlin
    fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {
        if (this == other) return true
        if (!ignoreCase) return false
```

*Returns `true` if this character is a Unicode surrogate code unit.*

```kotlin
    package kotlin.text
```

*Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes
* the first and the last lines if they are blank (notice difference blank vs empty).*

```kotlin
    String.replaceIndentByMargin(newIndent, marginPrefix: String = "", marginPrefix: String = "|"): String {
```

*Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent]*

```kotlin
    marginPrefix: String = "\n": String {
```

*Detects indent by [marginPrefix] as it does [trimIndent] and replace it with [newIndent]*

```kotlin
    marginPrefix: String = "\": String {
```

*Detects indent by [marginPrefix] as it does [trimIndent] and replace it with [newIndent]*

```kotlin
    marginPrefix: String = "\": String {
```

*Detects indent by [marginPrefix] as it does [trimIndent] and replace it with [newIndent]*

```kotlin
    marginPrefix: String = "\": String {
```

*Detects indent by [marginPrefix] as it does [trimIndent] and replace it with [newIndent]*

```kotlin
    marginPrefix: String = "\": String {
```
```kotlin
/**
 * Detects a common minimal indent of all the input lines, removes it from every line and
 also removes the first and the last n lines if they are blank (notice difference blank vs empty).
 * Note that blank lines do not affect the detected indent level.
 * In case if there are non-blank lines with no leading whitespace characters (no indent at all) then the n common indent is 0, and therefore this function doesn't change the indentation.
 * n * Doesn't preserve the original line endings.
 */
public fun String.trimIndent(): String = replaceIndent("\")

/**
 * Detects a common minimal indent like it does trimIndent() and replaces it with the specified newIndent.
 */
public fun String.replaceIndent(newIndent: String = "")
```

```kotlin
private fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }

private fun getIndentFunction(indent: String) = when {
    indent.isEmpty() -> { line: String -> line }
    else -> { line: String -> indent + line }
}

private inline fun List<String>.reindent(
    resultSizeEstimate: Int,
    indentAddFunction: (String) -> String,
    indentCutFunction: (String) -> String?
): String {
    val lastIndex = lastIndex
    return mapIndexedNotNull { index, value ->
        if ((index == 0 || index == lastIndex) && value.isBlank())
            null
        else
            indentCutFunction(value)?.let(indentAddFunction) ?: value
    }
        .joinTo(StringBuilder(resultSizeEstimate), "\n")
        .toString()
```

```kotlin
public object Typography {
    /** The character "" */
    public const val quote: Char = '\u0022'
    /** The character $ */
    public const val dollar: Char = '\u0024'
    /** The character & */
    public const val amp: Char = '\u0026'
    /** The character < */
    public const val less: Char = '\u003C'
    /** The character > */
    public const val greater: Char = '\u003E'
    /** The non-breaking space character */
    public const val nbsp: Char = '\u00A0'
    /** The character × */
    public const val times: Char = '\u00D7'
    /** The character ¢ */
    public const val cent: Char = '\u00A2'
    /** The character £ */
    public const val pound: Char = '\u00A3'
    /** The character § */
    public const val section: Char = '\u00A7'
    /** The character © */
    public const val copyright: Char = '\u00A9'
    /** The character « */
    public const val leftGuillemete: Char = '\u00AB'
    /** The character » */
    public const val rightGuillemete: Char = '\u00BB'
    /** The character ® */
    public const val registered: Char = '\u00AE'
    /** The character ° */
    public const val degree: Char = '\u00B0'
    /** The character ± */
    public const val plusMinus: Char = '\u00B1'
    /** The character ¶ */
    public const val paragraph: Char = '\u00B6'
    /** The character · */
    public const val middleDot: Char = '\u00B7'
    /** The character ½ */
    public const val half: Char = '\u00BD'
    /** The character – */
    public const val ndash: Char = '\u2013'
    /** The character — */
    public const val mdash: Char = '\u2014'
    /** The character ' */
    public const val leftSingleQuote: Char = '\u2018'
    /** The character ' */
    public const val rightSingleQuote: Char = '\u2019'
    /** The character ' */
    public const val lowSingleQuote: Char = '\u201A'
    /** The character " */
    public const val leftDoubleQuote: Char = '\u201C'
    /** The character " */
    public const val rightDoubleQuote: Char = '\u201D'
    /** The character " */
    public const val lowDoubleQuote: Char = '\u201E'
    /** The character " */
    public const val doubleQuote: Char = '\u201F'
```
component10(): String = match.groupValues[10]\n
 /** Returns a number that is the ratio of this and \[other\] duration values. */
    public operator fun div(scale: Double): Duration = Duration(value / scale)

    /** Returns a duration whose value is this duration value divided by the given 
 [scale] number. */
    public operator fun times(scale: Int): Duration = Duration(value * scale)

    /** Returns a duration whose value is this duration value multiplied by the given 
 [scale] number. */
    public operator fun times(scale: Long): Duration = Duration(value * scale)

    /** Returns a duration whose value is this duration value divided by the given 
 [scale] number. */
    public operator fun times(scale: Int): Duration = Duration(value / scale)

    /** Returns a number that is the ratio of this and \[other\] duration values. */
    public operator fun div(other: Duration): Duration = Duration(value / other.value)

    /** Returns a duration whose value is this duration value divided by the given \[scale\] number. */
    public operator fun div(scale: Int): Duration = Duration(value / scale)

    /** Returns a number that is the ratio of this and \[other\] duration values. */
    public operator fun div(other: Duration): Double = this.value / other.value

    /** Returns true, if the duration value is less than zero. */
    public fun isNegative(): Boolean = value < 0

    /** Returns true, if the duration value is greater than zero. */
    public fun isPositive(): Boolean = value > 0

    /** Returns true, if the duration value is infinite. */
    public fun isInfinite(): Boolean = value.isInfinite()

    /** Returns true, if the duration value is finite. */
    public fun isFinite(): Boolean = value.isFinite()
fun compareTo(other: Duration): Int = this.value.compareTo(other.value)

    // splitting to components
    /\n    * Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.
    * The result of [action] is returned as the result of this function.
    * The value of this duration expressed as a [Double] number of the specified [unit].
    * The value of this duration expressed as a [Long] number of the specified [unit].

    public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T =
        action(inMinutes.toInt(), secondsComponent, nanosecondsComponent)

    public inline fun <T> toComponents(action: (hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =
        action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)

    public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =
        action(inSeconds.toLong(), nanosecondsComponent)
toDouble(DurationUnit.HOURS)
    /** The value of this duration expressed as a [Double] number of milli
     * seconds. */
    public val inMilliSeconds: Double get() = toDouble(DurationUnit.MILLISECONDS)
    /** The value of this duration expressed as a [Double] number of micro
     * seconds. */
    public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)
    /** The value of this duration expressed as a [Double] number of nano
     * seconds. */
    public val inNanoseconds: Double get() = toDouble(DurationUnit.NANOSECONDS)
    // shortcuts

    /**
     * Returns the value of this duration expressed as a [Long] number of nan
     * seconds. 
     * * The value is coerced to the range of [Long] type, if it doesn't fit in that range, see the conversion [Double.toLong] for details. 
     * * The range of durations that can be expressed as a `Long` number of nanoseconds is approximately ±u00b1292 years. 
     * * The range of durations that can be expressed as a [Long] number of milliseconds is approximately ±u00b1292 million years. 
     * * The range of durations that can be expressed as a [Long] number of seconds is ±u00b1292 billion years. 
     * * Returns a string representation of this duration value expressed in the unit which yields the most compact and readable number value.
     * * Special cases:
     * - zero duration is formatted as `"0s"` without unit
     * - the infinite duration is formatted as `"Infinity"` without unit
     * - very small durations (less than 1e-15 s) are expressed in seconds and formatted in scientific notation
     * - very big durations (more than 1e+7 days) are expressed in days and formatted in scientific notation
     * @return the value of duration in the automatically determined unit followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, `ns`.
     */
    override fun toLongNanoseconds(): Long = toLong(DurationUnit.NANOSECONDS)
    /**
     * Returns the value of this duration expressed as a [Long] number of milliseconds.
     */
    public fun toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)
    /**
     * Returns a string representation of this duration value expressed in the unit which yields the most compact and readable number value.
     * * Special cases:
     * - zero duration is formatted as `"0s"` without unit
     * - the infinite duration is formatted as `"Infinity"` without unit
     * - very small durations (less than 1e-15 s) are expressed in seconds and formatted in scientific notation
     * - very big durations (more than 1e+7 days) are expressed in days and formatted in scientific notation
     * @return the value of duration in the automatically determined unit followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, `ns`.
     */
    override fun toString(): String = when {
        isInfinite() -> value.toString()
        value == 0.0 -> "0s"
        else -> {
            val absNs = absoluteValue.inNanoseconds
            var scientific = false
            var maxDecimals = 0
            val unit = when {
                absNs < 1e-6 -> DurationUnit.SECONDS.also { scientific = true }
                absNs < 1 -> DurationUnit.NANOSECONDS
                absNs < 1000e9 -> DurationUnit.MICROSECONDS
                absNs < 60_000e9 -> DurationUnit.MILLISECONDS
                absNs < 3600_000e9 -> DurationUnit.SECONDS
                absNs < 86400e9 * 1e7 -> DurationUnit.MINUTES
                absNs < 60_000_000e9 * 1e7 -> DurationUnit.HOURS
                absNs < 3600_000_000e9 * 1e7 -> DurationUnit.DAYS
                else -> DurationUnit.DAYS.also { scientific = true } + unit.shortName() + "n"
            }
            val value = toDouble(unit)
            when {
                scientific -> formatScientific(value)
                maxDecimals > 0 -> formatUpToDecimals(value, maxDecimals)
                else -> formatToExactDecimals(value, precision(abs(value)))
            } + unit.shortName()
        }
    }
    /**
     * Returns a string representation of this duration value expressed in the given [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, `ns`.
     */
    override fun toString(unit: DurationUnit, decimals: Int = 0): String {
        require(decimals >= 0) { "decimals must be not negative, but was $decimals" }
        if (isInfinite()) return value.toString()
        val absNs = absoluteValue.inNanoseconds
        var scientific = false
        var maxDecimals = 0
        val unit = when {
            absNs < 1e14 -> DurationUnit.DAYS.also { scientific = true } + unit.shortName() + "ns"
            else -> formatScientific(absNs, precision(absNs))
        } + unit.shortName() + "n"
        private fun precision(value: Double): Int = when {
            value < 1 -> 3
            value < 10 -> 2
            value < 100 -> 1
            else -> 0
        }
        * Returns a string representation of this duration value expressed in the given [unit] and formatted with the specified [decimals] number of digits after decimal point.
        * Special cases:
        * - the infinite duration is formatted as `"Infinity"` without unit
        * @throws IllegalArgumentException if [decimals] is less than zero.
        * @sample samples.time.Durations.toStringDecimals
        */
    }
    /**
     * Returns an ISO-8601 based string representation of this duration.
     */
    fun toIso8601(): String {
        makeComponents{
            String { require(it >= 0) { "decimals must be non-negative, but was $it" }}
        } + 
        unit.shortName() + "n"
        @throws IllegalArgumentException if [decimals] is less than zero.
        * @sample samples.time.Durations.toStringDecimals
        */
    }
component absolute value of this duration is greater than [Int.MAX_VALUE], it is replaced with
[Int.MAX_VALUE],
* so the infinite duration is formatted as \`"PT2147483647H"\`
* Negative
durations are indicated with the sign `-` in the beginning of the returned string, for example, \`"-PT5M30S"\`
* @sample samples.time.Durations.toString

@UseExperimental(ExperimentalStdlibApi::class)
public fun toString(): String = buildString {
    if (isNegative()) append('-')
    append("PT")
    absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->
        val hasHours = hours != 0
        val hasMinutes = minutes != 0 || (hasSeconds && hasHours)
        val hasSeconds = seconds != 0 || (nanoseconds != 0 && hasMinutes)
        val nanoseconds = seconds || (nanoseconds != 0)

        append(hours).append('H')
        if (hasMinutes) {
            append(minutes).append('M')
        }
        if (hasSeconds || (!hasHours && !hasMinutes)) {
            append(seconds)
            if (nanoseconds != 0) {
                appendRange(nss = nanoseconds.toString(), padStart(9, '0'))
            }
        }
    }
}

// constructing from number of units
// extension functions

/**
 * Returns a [Duration] equal to this [Int] number of the specified [unit].
 */
@SinceKotlin("1.3")
@ExperimentalTime
public fun Int.toDuration(unit: DurationUnit): Duration =
toDouble().toDuration(unit)

/**
 * Returns a [Duration] equal to this [Long] number of the specified [unit].
 */
@SinceKotlin("1.3")
@ExperimentalTime
public fun Long.toDuration(unit: DurationUnit): Duration =
toDouble().toDuration(unit)

/**
 * Returns a [Duration] equal to this [Double] number of the specified [unit].
 */
@SinceKotlin("1.3")
@ExperimentalTime
public fun Double.toDuration(unit: DurationUnit): Duration =
toDuration(convertDurationUnit(this, unit, storageUnit))

// constructing from number of units
// extension properties

/**
 * Returns a [Duration] equal to this [Int] number of nanoseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.nanoseconds get() =
toDuration(NANOSECONDS)

/**
 * Returns a [Duration] equal to this [Long] number of nanoseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.nanoseconds get() =
toDuration(NANOSECONDS)

/**
 * Returns a [Duration] equal to this [Double] number of nanoseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.nanoseconds get() =
toDuration(NANOSECONDS)

/**
 * Returns a [Duration] equal to this [Int] number of microseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.microseconds get() =
toDuration(MICROSECONDS)

/**
 * Returns a [Duration] equal to this [Long] number of microseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.microseconds get() =
toDuration(MICROSECONDS)

/**
 * Returns a [Duration] equal to this [Double] number of microseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.microseconds get() =
toDuration(MICROSECONDS)

/**
 * Returns a [Duration] equal to this [Int] number of milliseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.milliseconds get() =
toDuration(MILLISECONDS)

/**
 * Returns a [Duration] equal to this [Long] number of milliseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.milliseconds get() =
toDuration(MILLISECONDS)

/**
 * Returns a [Duration] equal to this [Double] number of milliseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.milliseconds get() =
toDuration(MILLISECONDS)

/**
 * Returns a [Duration] equal to this [Int] number of seconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.seconds get() =
toDuration(SECONDS)

/**
 * Returns a [Duration] equal to this [Long] number of seconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.seconds get() =
toDuration(SECONDS)

/**
 * Returns a [Duration] equal to this [Double] number of seconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.seconds get() =
toDuration(SECONDS)

/**
 * Returns a [Duration] equal to this [Int] number of minutes.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.minutes get() =
toDuration(MINUTES)
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.minutes get() =
toDuration(DurationUnit.MINUTES)

/** Returns a [Duration] equal to this [Double] number of minutes. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.minutes get() =
toDuration(DurationUnit.MINUTES)

/** Returns a [Duration] equal to this [Int] number of hours. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.hours get() =
toDuration(DurationUnit.HOURS)

/** Returns a [Duration] equal to this [Long] number of hours. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.hours get() =
toDuration(DurationUnit.HOURS)

/** Returns a [Duration] equal to this [Int] number of days. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.days get() =
toDuration(DurationUnit.DAYS)

/** Returns a [Duration] equal to this [Long] number of days. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.days get() =
toDuration(DurationUnit.DAYS)

/** Returns a duration whose value is the specified [duration] value multiplied by this number. */
@SinceKotlin("1.3")
@ExperimentalTime
@kotlin.internal.InlineOnly
public
inline operator fun Int.times(duration: Duration): Duration = duration * this

/** Returns a duration whose value is the specified [duration] value multiplied by this number. */
@SinceKotlin("1.3")
@ExperimentalTime
@kotlin.internal.InlineOnly
public inline operator fun Double.times(duration: Duration): Duration = duration * this

internal expect fun
formatToExactDecimals(value: Double, decimals: Int): String
internal expect fun formatUpToDecimals(value: Double, decimals: Int): String
internal expect fun formatScientific(value: Double): String

@file:kotlin.jvm.JvmMultifileClass()
@file:kotlin.jvm.JvmName("DurationUnitKt")

package kotlin.time

/**
 * The list of possible time measurement units, in which a duration can be expressed.
 * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
 * [HOURS].
 */
@SinceKotlin("1.3")
@ExperimentalTime
public expect enum class DurationUnit {
    /**
     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.
     */
    NANOSECONDS,
    /**
     * Time unit representing one microsecond, which is 1/1000 of a millisecond.
     */
    MICROSECONDS,
    /**
     * Time unit representing one millisecond, which is 1/1000 of a second.
     */
    MILLISECONDS,
    /**
     * Time unit representing one second.
     */
    SECONDS,
    /**
     * Time unit representing one minute.
     */
    MINUTES,
    /**
     * Time unit representing one hour.
     */
    HOURS,
    /**
     * Time unit representing one day, which is always equal to 24 hours.
     */
    DAYS;
}

/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified
 targetUnit. */
@SinceKotlin("1.3")
@ExperimentalTime
internal expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double

internal fun DurationUnit.shortName(): String = when (this) {
    DurationUnit.NANOSECONDS -> "ns"
    DurationUnit.MICROSECONDS -> "\u00b5s"
    DurationUnit.MILLISECONDS -> "\u00b5s"
    DurationUnit.SECONDS -> "s"
    DurationUnit.MINUTES -> "\u00b0m"
    DurationUnit.HOURS -> "h"
    DurationUnit.DAYS -> "\u00b0d"
}
annotated with '@ExperimentalTime' must be accepted either by\n* annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTime::class)`,\n* or by using the compiler argument `-Xopt-in=kotlin.time.ExperimentalTime`.\n*/\n@Suppress("DEPRECATION")\n@Experimental(level = Experimental.Level.ERROR)\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(\n    ANNOTATION_CLASS,\n    FIELD,\n    LOCAL_VARIABLE,\n    VALUE_PARAMETER,\n    CONSTRUCTOR,\n    FUNCTION,\n    PROPERTY,\n    PROPERTY_SETTER,\n    TYPEALIAS\n)\n@SinceKotlin("1.3")\npublic annotation class ExperimentalTime\n
/**\n * A source of time for measuring time intervals.\n * The only operation provided by the time source is [markNow]. It returns a [TimeMark], which can be used to\n * query the elapsed time later.\n */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic interface TimeSource {\n    /**\n     * Marks a point in\n     * time on this time source.\n     * The returned [TimeMark] instance encapsulates the captured time point and\n     * allows querying\n     * the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.\n     * This time source returns its readings from a source of monotonic time when it is available in a target platform,\n     * and resorts to a non-monotonic time source otherwise.\n     */\n    public fun markNow(): TimeMark\n
    /**\n     * Returns the amount of time passed from this mark measured with the time source from\n     * which this mark was taken.\n     * Note that the value returned by this function can change on subsequent\n     * invocations.\n     */\n    public abstract fun elapsedNow(): Duration\n
    /**\n     * Returns false if this time mark has not passed according to the time source from which this mark was taken.\n     * If the time source is\n     * monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point\n     * of the time source.\n     */\n    public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()\n
    /**\n     * Returns true if this time mark has passed according to the time source from which this mark was taken.\n     * If the time source is\n     * monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point\n     * of the time source.\n     */\n    public fun hasPassedNow(): Boolean = elapsedNow().isPositive()\n
    /**\n     * Returns true if this time mark has passed according to the time source from which this mark was taken.\n     * If the time source is\n     * monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point\n     * of the time source.\n     * The returned time mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.\n     */\n    public open operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)\n
    /**\n     * Returns true if this time mark has passed according to the time source from which this mark was taken.\n     * If the time source is\n     * monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point\n     * of the time source.\n     */\n    public open operator fun minus(duration: Duration): TimeMark = AdjustedTimeMark(this, -duration)\n
    /**\n     * Returns false if this time mark has not passed according to the time source from which this mark was taken.\n     * If the time source is\n     * monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point\n     * of the time source.\n     */\n    public open operator fun compareTo(other: TimeMark): Int = throw Error("Operation is\n*/


disallowed.

```
@ExperimentalTime
private class AdjustedTimeMark(val mark: TimeMark, val adjustment: Duration) : TimeMark() {
    override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment
}

@SinceKotlin("1.3")
object MonotonicTimeSource : TimeSource {
    override fun read(): Long = 0L
    override fun plusAssign(duration: Duration) {
        // implementation
    }
}
```

This protected abstract time source that returns its readings as [Long] values in the specified [unit] property.

```
@SinceKotlin("1.3")
public typealias Clock = TimeSource

@SinceKotlin("1.3")
public typealias ClockMark = TimeMark
```

Usage of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

```
package kotlin.time

@SinceKotlin("1.3")
@ExperimentalTime
internal expect object MonotonicTimeSource : TimeSource {
    override fun read(): Long = 0L
    override fun plusAssign(duration: Duration) {
        // implementation
    }
}
```

An abstract class used to implement time sources that return their readings as [Long] values in the specified [unit] property.

```
@SinceKotlin("1.3")
@ExperimentalTime
internal expect object MonotonicTimeSource : TimeSource {
    override fun read(): Long = 0L
    override fun plusAssign(duration: Duration) {
        // implementation
    }
}
```

The unit in which this time source's readings are expressed is [Long] number.

```
@SinceKotlin("1.3")
@ExperimentalTime
public abstract class AbstractLongTimeSource(protected val unit: DurationUnit) : TimeSource {
    protected abstract fun read(): Long

    private class LongTimeMark(private val startedAt: Long, private val timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {
        override fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset
        override fun plus(duration: Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)
    }

    override fun markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)
}
```

An abstract class used to implement time sources that return their readings as [Double] values in the specified [unit] property.

```
@SinceKotlin("1.3")
@ExperimentalTime
public abstract class AbstractDoubleTimeSource(protected val unit: DurationUnit) : TimeSource {
    protected abstract fun read(): Double

    private class DoubleTimeMark(private val startedAt: Double, private val timeSource: AbstractDoubleTimeSource, private val offset: Duration) : TimeMark() {
        override fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset
        override fun plus(duration: Duration): TimeMark = DoubleTimeMark(startedAt, timeSource, offset + duration)
    }

    override fun markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)
}
```

A time source that has programmatically updatable readings. It is useful as a predictable source of time in tests.

```
@SinceKotlin("1.3")
@ExperimentalTime
public class TestTimeSource : AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {
    private var reading: Long = 0L

    override fun read(): Long = reading

    /**
     * Advances the current reading value of this time source by the specified 
     * [duration].
     *
     * [duration] value is rounded down towards zero when converting it to a [Long] 
     * number of nanoseconds.
     * For example, if the duration being added is '0.6.nanoseconds', the reading doesn't 
     * advance because it's less than double.
     *
     * The duration value is rounded to zero nanoseconds.
     *
     * @throws IllegalStateException when the reading value overflows as the result of this operation.
     */
    public operator fun plusAssign(duration: Duration) {
        val delta = duration.toDouble(unit)
        val longDelta = delta.toLong()

        reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {
            // when delta
            val newReading = reading + longDelta
            if (reading xor longDelta > 0 && reading xor newReading < 0) overflow(duration)
            newReading
        } else {
            // when delta is greater than long.
            if newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE overflow(duration)
            newReading.toLong()
```
private fun overflow(duration: Duration) { throw IllegalStateException("TestTimeSource will overflow if its reading ${reading}ns is advanced by $duration.")}

private fun overflow(duration: Duration) {
    throw IllegalStateException("TestTimeSource will overflow if its reading ${reading}ns is advanced by $duration.")
}

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use AbstractLongTimeSource instead.", ReplaceWith("AbstractLongTimeSource"), "kotlin.time.AbstractLongTimeSource")
public typealias MonoClock = TimeSource.Monotonic

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use AbstractDoubleTimeSource instead.", ReplaceWith("AbstractDoubleTimeSource"), "kotlin.time.AbstractDoubleTimeSource")
public typealias AbstractDoubleClock =

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use TestTimeSource instead.", ReplaceWith("TestTimeSource", "kotlin.time.TestTimeSource")
public typealias TestClock =

package kotlin

import kotlin.internal.InlineOnly

/**
 * Returns a hash code value for the object or zero if the object
 * is `null`.
 *
 * @see Any.hashCode
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0

package kotlin

/**
 * Represents a version of the Kotlin standard
 * library.
 *
 * The major, minor and patch are integer components of a version,
 * they must be non-negative and
 * not greater than 255 (MAX_COMPONENT_VALUE).
 */
@SinceKotlin("1.1")
    /**
     * Creates a version from all three
     * components.
     */
    fun compareTo(other: KotlinVersion): Int {
        return when {
            major == other.major -> when {
                minor == other.minor -> when {
                    patch == other.patch -> 0
                    patch < other.patch -> -1
                    else -> 1
                }
            }
            else -> { major < other.major } 1
        }
    }

    fun equals(other: KotlinVersion): Boolean {
        return major == other.major && minor == other.minor && patch == other.patch
    }

    fun hashCode(): Int {
        return major * 100000 + minor * 100 + patch
    }

    fun toString(): String {
        return major.toString() + "," + minor.toString() + "," + patch.toString()
    }

    companion object {
        val MAX_COMPONENT_VALUE = 255
        val CURRENT_VERSION = 1.8
    }
}

fun main() {
    val version = KotlinVersion(1, 8, 0)
    println(version.toString())
}

fun main() {
    val version = KotlinVersion(1, 8, 0)
    println(version.toString())
}

fun main() {
    val version = KotlinVersion(1, 8, 0)
    println(version.toString())
}
[patch] component zero.

```
public constructor(major: Int, minor: Int) : this(major, minor, 0)

private fun versionOf(major: Int, minor: Int, patch: Int) = major.shl(16) + minor.shl(8) + patch

override fun toString(): String = "$major.$minor.$patch"
```
threads, its behavior is undefined.

/*
 * This mode should not be used unless the [Lazy] instance is
 * guaranteed never to be initialized from more than one thread
 * NONE,\n */

internal object UNINITIALIZED_VALUE {\n  \n  override val value: T = initializer\n
  \n  override fun get(): T\n  \n  override fun toString(): String = if (isInitialized())
    value.toString() else Lazy\n
  \n  @Suppress("UNCHECKED_CAST")
  return _value as T
}

internal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {
    private var initializer: (() -> T)? = initializer
    private var _value: Any? = UNINITIALIZED_VALUE

    override val value: T
        get() {
            if (_value === UNINITIALIZED_VALUE) {
                _value = initializer!!()
                initializer = null
            }

            return _value as T
        }

    override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE

    override fun toString(): String = if (isInitialized())
        value.toString() else Lazy\n
    private fun writeReplace(): Any =
        InitializedLazyImpl(value)
}

internal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {

    override fun isInitialized(): Boolean = true

    override fun toString(): String = value.toString()

}

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 * LICENSE.txt file.\n *
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("NumbersKt")
package kotlin

/**
 * Counts the number of set bits in the binary representation of this 
 * [Int] number.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.countOneBits(): Int

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this 
 * [Int] number.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.countLeadingZeroBits(): Int

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this 
 * [Int] number.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.countTrailingZeroBits(): Int

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this 
 * [Int] number,\n *
 * if this number is zero.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.takeHighestOneBit(): Int

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this 
 * [Int] number,\n *
 * if this number is zero.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.takeLowestOneBit(): Int

/**
 * Rotates the binary representation of this 
 * [Int] number left by the specified [bitCount] number of bits.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.rotateRight(bitCount: Int): Int

/**
 * Rotates the binary representation of this 
 * [Int] number right by the specified [bitCount] number of bits.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.rotateLeft(bitCount: Int): Int

/**
 * Counts the number of set bits in the binary representation of this 
 * [Long] number.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.countOneBits(): Int

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this 
 * [Long] number.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.countLeadingZeroBits(): Int

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this 
 * [Long] number.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.countTrailingZeroBits(): Int

/**
 * Rotates the binary representation of this 
 * [Long] number left by the specified [bitCount] number of bits.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.rotateRight(bitCount: Int): Long

/**
 * Rotates the binary representation of this 
 * [Long] number right by the specified [bitCount] number of bits.\n *
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.rotateLeft(bitCount: Int): Long
zero, if this number is zero.

Long.takeLowestOneBit(): Long\n
* \n
Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits. \n
Long.rotateLeft(bitCount: Int): Long\n
* \n
Rotates the binary representation of this [Long] number by the specified [bitCount] number of bits. \n
Long.rotateRight(bitCount: Int): Long\n
* \n
Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits. \n
Long.CountOneBits(): Int = (toInt() and 0xFF).countOneBits() \n
* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number. \n
Long.CountLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS) \n
* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number. \n
Byte.CountOneBits(): Int = (toInt() and 0xFF).countOneBits() \n
* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number. \n
Byte.CountLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS) \n
* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number. \n
Byte.CountTrailingZeroBits(): Int = (toInt() and 0xFF).countTrailingZeroBits() \n
* Count the number of trailing zero bits in the binary representation of this [Byte] number. \n
Byte.TakeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte() \n
* Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number. \n
Byte.TakeLowestOneBit(): Byte = (toInt() and 0xFF).takeLowestOneBit().toByte() \n
* Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number. \n
byte.CountOneBits(): Int = (toInt() and 0xFFFF).countOneBits() \n
* Counts the number of set bits in the binary representation of this [Short] number. \n
byte.CountLeadingZeroBits(): Int = (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS) \n
* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number. \n
byte.CountTrailingZeroBits(): Int = (toInt() and 0xFFFF).countTrailingZeroBits() \n
* Count the number of trailing zero bits in the binary representation of this [Short] number. \n
byte.TakeHighestOneBit(): Byte = (toInt() and 0xFFFF).takeHighestOneBit().toByte() \n
* Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number. \n
byte.TakeLowestOneBit(): Byte = (toInt() and 0xFFFF).takeLowestOneBit().toByte() \n
* Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number.
Short.countLeadingZeroBits(): Int =
    (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS -
    Short.SIZE_BITS)\n
/**
 * Counts the number of consecutive least significant bits that are zero in the binary
 * representation of this [Short] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun
    Short.countLeadingZeroBits(): Int =
    (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS -
    Short.SIZE_BITS)

/**
 * Returns a number
 * having a single bit set in the position of the most significant set bit of this [Short] number,\n * or zero, if this number is zero.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun
    Short.takeHighestOneBit(): Short =
    (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n
/**
 * Returns a number
 * having a single bit set in the position of the least significant set bit of this [Short] number,\n * or zero, if this number is zero.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun
    Short.takeLowestOneBit(): Short =
    toInt().takeLowestOneBit().toShort()\n
/**
 * Rotates the binary representation of this [Short] number left by the specified [bitCount] number of bits,\n * or zero, if the most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun
    Short.rotateLeft(bitCount: Int): Short =
    (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n
/**
 * Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits,\n * or zero, if the least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@public inline fun
    Short.rotateRight(bitCount: Int): Short =
    (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\n
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 */

package kotlin

/**
 * Represents a generic pair of two values.
 * There is no meaning attached to values in this class, it can be used for any purpose.
 * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.
 * An example of decomposing it into values:
 * @sample samples.misc.Tuples.pairDestructuring
 * @constructor
 * Creates a new instance of Pair.
 */
public data class Pair<out A, out B>(
    public val first: A,
    public val second: B
) : Serializable {

    /**
     * Returns string representation of the [Pair] including its [first] and [second] values.
     */
    public override fun toString(): String = "($first, $second)"
}

/**
 * Creates a tuple of type [Pair] from this and [that].
 * This can be useful for creating [Map] literals with less noise, for example:
 * @sample samples.collections.Maps.instantiation.mapFromPairs
 */
public infix fun <A, B>
    A.to(that: B): Pair<A, B> = Pair(this, that)\n
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 */

@file:kotlin.jvm.JvmName("TuplesKt")

package kotlin

/**
 * Represents a triad of values
 * There is no meaning attached to values in this class, it can be used for any purpose.
 * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.
 * An example of decomposing it into values:
 * @sample samples.misc.Tuples.pairDestructuring
 * @constructor
 * Creates a new instance of Pair.
 */
public data class Triple<out A, out B, out C>(
    public val first: A,
    public val second: B,
    public val third: C
) : Serializable {

    /**
     * Returns string representation of the [Pair] including its [first] and [second] values.
     */
    public override fun toString(): String = "($first, $second, $third)"
}
example of decomposing it into values:

```kotlin
public data class Triple<out A, out B, out C>(
    public val first: A,
    public val second: B,
    public val third: C
) : Serializable
{

    /**
     * Returns string representation of the [Triple] including its [first], [second] and [third] values.
     * @param A
     * @param B
     * @param C
     */
    public override fun toString(): String = "($first, $second, $third)"
}

/**
 * Converts this triple into a list.
 * @sample samples.misc.Tuples.tripleToList
 */
public fun <T> Triple<T, T, T>.toList(): List<T> =
    listOf(first, second, third)
```

```
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 */

// Auto-generated file. DO NOT EDIT!

```

```
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 */

// Auto-generated file. DO NOT EDIT!

package kotlinx.ranges

import kotlin.internal.*

/**
 * A range of values of type `ULong`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public class ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {
    override val start: ULong get() = first
    override val endInclusive: ULong get() = last
    override fun contains(value: ULong): Boolean = first <= value && value <= last
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
        other is ULongRange && (isEmpty() && other.isEmpty() ||
                first == other.first && last == other.last)
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())
    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"
    companion object {
        /**
         * Creates ULongRange within the specified bounds of a closed range.

         * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the
         * specified [step].
         */
        public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)
    }
}

/**
 * An iterator over a progression of values of type `ULong`.
 * @property step the number by which the value is incremented on each step.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
private class ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private val step = step.toULong() // use 2-complement math for negative steps
    private var next = if (hasNext) first else
fun hasNext(): Boolean = hasNext

    override fun nextULong(): ULong {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }

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 */

package kotlin.math

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a: UInt, b: UInt): UInt {
    return minOf(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a: ULong, b: ULong): ULong {
    return minOf(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun max(a: UInt, b: UInt): UInt {
    return maxOf(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun max(a: ULong, b: ULong): ULong {
    return maxOf(a, b)
}
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun ULong.countOneBits(): Int = toLong().countOneBits() \n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits() \n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits() \n * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number, \n * or zero, if this number is zero.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong() \n * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number, \n * or zero, if this number is zero.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong() \n * Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits. \n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. 
 * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count: 
 * `\n
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong() \n * Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits. \n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side. 
 * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count: 

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun UByte.countOneBits(): Int = toUInt().countOneBits() \n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte] number.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits() \n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits() \n * Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number, \n * or zero, if this number is zero.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte() \n * Returns a number having a single bit set in the position of the least significant set bit of this [UByte] number, \n * or zero, if this number is zero.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOn
y
public inline fun UByte.rotateLeft(bitCount: Int): UByte = toInt().rotateLeft(bitCount).toUByte() \n * Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits. \n * The
most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.

`number.rotateLeft(-n) == number.rotateRight(n)` Rotating by a multiple of `UBYTE.SIZE_BITS` (8) returns the same number, or more generally

`number.rotateLeft(n % 8) == number.rotateRight(n % 8)`

Rotates the binary representation of this `UBYTE` number right by the specified `bitCount` number of bits.

The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

`number.rotateRight(-n) == number.rotateLeft(n)` Rotating by a negative bit count is the same as rotating it left by the negated bit count.

Rotates the binary representation of this `UBYTE` number left by the specified `bitCount` number of bits.

Counts the number of set bits in the binary representation of this `USHORT` number.

`number.rotateLeft(n) == number.rotateLeft(n % 16)`

Rotates the binary representation of this `USHORT` number left by the specified `bitCount` number of bits.

The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.

`number.rotateRight(-n) == number.rotateLeft(n)` Rotating by a negative bit count is the same as rotating it right by the negated bit count.

Rotates the binary representation of this `USHORT` number right by the specified `bitCount` number of bits.

The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

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(ac >= bc) ac - bc else ac - bc + c

private fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {
    val ac = a % c
    val bc = b % c
    return if (ac >= bc) ac - bc else ac - bc + c
}

private fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {
    val ac = a % c
    val bc = b % c
    return if (ac >= bc) ac - bc else ac - bc + c
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative [step]. No validation on passed parameters is performed. The given parameters should satisfy the condition: *a* - either step > 0 and start <= end or step < 0 and start >= end. *param start* is the first element of the progression. *param end* is the ending bound for the progression. *param step* is the increment, or difference of successive elements in the progression. *return* the final element of the progression.

@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative [step]. No validation on passed parameters is performed. The given parameters should satisfy the condition: *a* - either step > 0 and start <= end or step < 0 and start >= end. *param start* is the first element of the progression. *param end* is the ending bound for the progression. *param step* is the increment, or difference of successive elements in the progression. *return* the final element of the progression.

@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toULong())
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

/**
 * Returns a string representation of this Byte value in the specified radix.
 * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)

/**
 * Returns a string representation of this UByte value in the specified radix.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UByte.toUByte(pkt: Int): UByte = toUByteOrNull(pkg) ?: numberFormatError(pkt)

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UByte.toUByte(pkt: Int): UByte = toUByteOrNull(pkt) ?: numberFormatError(pkt)

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UByte.toUByte(pkt: Int): UByte = toUByteOrNull(pkt) ?: numberFormatError(pkt)

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UByte.toUByte(pkt: Int): UByte = toUByteOrNull(pkt) ?: numberFormatError(pkt)
number.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShortOrNull(): UShort? {
    val int = this.toUIntOrNull() ?: return null
    if (int > UShort.MAX_VALUE) return null
    return int.toUShort()
}

/**
 * Parses the string as an [UInt] number and returns the result.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUIntOrNull(radix: Int): UInt? {
    checkRadix(radix)

    val length = this.length
    if (length == 0)
        return null

    val limit: UInt = UInt.MAX_VALUE
    val start: Int

    val firstChar = this[0]
    if (firstChar < '0') {
        if (length == 1 || firstChar != '+') return null
        start = 1
    } else {
        start = 0
    }

    val limitForMaxRadix = 119304647u  //  limit / 36

    var limitBeforeMul = limitForMaxRadix
    val uradix = radix.toUInt()
    var result = 0u
    for (i in start until length) {
        val digit = digitOf(this[i], radix)

        if (digit < 0) return null
        if (result > limitBeforeMul) {
            if (limitBeforeMul == limitForMaxRadix) {
                limitBeforeMul = limit / uradix
                if (result > limitBeforeMul) {
                    return null
                }
            } else {
                return null
            }
        }

        result *= uradix
        result += digit.toUInt()
        if (result < beforeAdding) return null // overflow has happened
    }

    return result
}
return result
}

/**
 * Parses the string as an [ULong] number and returns the result or `null` if the string is not a valid representation of a number.
 * @param value The string to parse.
 * @param radix The radix to use for parsing.
 * @return The parsed value as an [ULong] or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULongOrNull(radix: Int): ULong?
{
    checkRadix(radix)

    val length = this.length
    if (length == 0) return null

    val limit: ULong = ULong.MAX_VALUE
    val start: Int = 0
    val limitForMaxRadix = 512409557603043100uL

    var limitBeforeMul = limitForMaxRadix
    val uradix = radix.toULong()
    var result = 0uL
    for (i in start until length)
    {
        val digit = digitOf(this[i], radix)

        if (digit < 0) return null
        if (result > limitBeforeMul) {
            if (limitBeforeMul == limitForMaxRadix) {
                limitBeforeMul = limit / uradix

                if (result > limitBeforeMul) {
                    return null
                }
            }
            return null
        }
        result *= uradix
        result += digit.toUInt()
        if (result < beforeAdding)
    }

    return result
}

对外开放用于Cisco Nexus Dashboard Fabric Controller 12.0(1) 4817
`NaN` *@SinceKotlin("1.2")* public expect fun acos(x: Double): Double

`-atan(NaN)` is `NaN` *@SinceKotlin("1.2")* public expect fun atan(x: Double): Double

Returns the angle 'theta' of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value `y/x` if the returned value is an angle in the range from `-PI/2` to `PI/2` radians.

---

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 4818
\`\ln1p(NaN)\` is `NaN`\n * `-\ln1p(x)` is `NaN` where `x < -1.0`\n * `-\ln1p(-1.0)` is `-\Inf`\n * `-\ln1p(+Inf)` is `+\Inf`\n * @see [ln function] @see [expm1 function] @SinceKotlin(1.2)\n\public fun\n\ln1p(x: Double): Double?\n\* Returns the given value [x] to an integer towards positive infinity.\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * `-\ceil(x)` is `x` where `x` is `NaN` or `+\Inf` or `-\Inf` or already a mathematical integer.\n * @SinceKotlin(1.2)\n\public expect fun\n\ceil(x: Double): Double\n\* Returns the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * `-\floor(x)` is `x` where `x` is `NaN` or `+\Inf` or `-\Inf` or already a mathematical integer.\n * @SinceKotlin(1.2)\n\public expect fun\n\floor(x: Double): Double\n\* Returns the given value [x] to an integer towards zero.\n * @return the value [x] having its fractional part truncated.\n * Special cases:\n * `-\trunc(x)` is `x` where `x` is `NaN` or `+\Inf` or `-\Inf` or already a mathematical integer.\n * @SinceKotlin(1.2)\n\public expect fun\n\trunc(x: Double): Double\n\* Returns the closest integer towards even integer.\n * Special cases:\n * `-\round(x)` is `x` where `x` is `NaN` or `+\Inf` or `-\Inf` or already a mathematical integer.\n * @SinceKotlin(1.2)\n\public expect fun\n\abs(x: Double): Double\n\* @see absoluteValue extension property for [Double]\n * @return the absolute value of the given value [x].\n * @SinceKotlin(1.2)\n\public expect fun\n\sign(x: Double): Double\n\* Returns the sign of the given value [x]:\n * `-1.0` if the value is negative,\n * zero if the value is zero,\n * `1.0` if the value is positive.\n * Special case:\n * `-\sign(NaN)` is `NaN`\n * @SinceKotlin(1.2)\n\public expect fun\n\sign(x: Double): Double\n\* Returns the smaller of two values.\n * If either value is `NaN`, then the result is `NaN`.\n * @SinceKotlin(1.2)\n\public expect fun\n\max(a: Double, b: Double): Double\n\* Returns the greater of two values.\n * If either value is `NaN`, then the result is `NaN`.\n * @SinceKotlin(1.2)\n\public expect fun\n\min(a: Double, b: Double): Double\n\* Returns the smaller of two values.\n * If either value is `NaN`, then the result is `NaN`.\n * @SinceKotlin(1.2)\n\public expect fun\n\pow(x: Double, n: Int): Double\n\* Raises this value to the power [n].\n * @SinceKotlin(1.2)\n\public expect fun\n\nextUp(): Double\n\* Returns the double value nearest to this value in direction of positive infinity.\n * @SinceKotlin(1.2)\n\public expect fun\n\nextDown(): Double\n\* Returns the double value nearest to this value in direction of negative infinity.\n * @SinceKotlin(1.2)\n\public expect fun\n\nextTowards(to: Double): Double?\n\* Returns the double value nearest to this value in direction from this value towards the value [to].\n * Special cases:\n * `-\nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n * `-\nextTowards(x)` is `x`\n * @SinceKotlin(1.2)\n\public expect fun\n\roundToInt(): Int\n\* Returns the integer nearest to the result to [Int].\n * Ties are rounded towards positive infinity.
case
* - ` NaN .sign` is ` NaN`
@SinceKotlin("1.2")
public expect val Float .sign: Float

/**
 * Returns this value with the sign bit same as of the [sign] value.
 * @returns
 */
@SinceKotlin("1.2")
public expect fun Float .withSign (sign: Float): Float

/**
 * Returns this value with the sign bit same as of the [sign] value.
 * @returns
 */
@SinceKotlin("1.2")
public expect fun Float .withSign (sign: Int): Float

/**
 * Rounds this [Float] value to the nearest integer and converts the result to [Int].
 * @returns
 */
@SinceKotlin("1.2")
public expect fun Float .roundToInt (): Int

/**
 * Rounds this [Float] value to the nearest integer and converts the result to [Long].
 * @returns
 */
@SinceKotlin("1.2")
public expect fun Float .roundToLong (): Long

// endregion

// region

/**
 * Returns the absolute value of the given value [n].
 * @returns
 */
@SinceKotlin("1.2")
public expect fun abs (n: Int): Int

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.2")
public expect fun min (a: Int, b: Int): Int

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
public expect fun max (a: Int, b: Int): Int

/**
 * Returns the absolute value of this value.
 * @returns
 */
@SinceKotlin("1.2")
public expect val Int .absoluteValue: Int

/**
 * Returns the sign of this value:
 *   - `-1` if the value is negative,
 *   - `0` if the value is zero,
 *   - `1` if the value is positive
 * @returns
 */
@SinceKotlin("1.2")
public expect val Int .sign: Int

/**
 * Returns the absolute value of the given value [n].
 * @returns
 */
@SinceKotlin("1.2")
public expect fun abs (n: Long): Long

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.2")
public expect fun min (a: Long, b: Long): Long

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
public expect fun max (a: Long, b: Long): Long

/**
 * Returns the absolute value of this value.
 * @returns
 */
@SinceKotlin("1.2")
public expect val Long .absoluteValue: Long

/**
 * Returns the sign of this value:
 *   - `-1` if the value is negative,
 *   - `0` if the value is zero,
 *   - `1` if the value is positive
 * @returns
 */
@SinceKotlin("1.2")
public expect val Long .sign: Int

// endregion

// endregion

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1.500 swagger-annotations 2.1.9

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```

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* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations/servers/Servers.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations/media/Encoding.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations/callbacks/Callback.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations/security/SecuritySchemes.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations/info/Info.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityScheme.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations/callbacks/Callbacks.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations=headers/Header.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations/info/Contact.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
jar/io/swagger/v3/oas/annotations/tags/Tag.java
* /opt/cola/permits/1165124384_1620941199.55/0/swagger-annotations-2-1-9-sources-
1.501 rank-eval-client 6.8.5

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 */
/**
 * Handler responsible for checking of confidentiality is required for the requested resource and if so rejecting the request and redirecting to a secure address.
* @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
  */
/**
 * Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
 *
 * Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual
 SSLSession.
 *
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return true if the request is 'sufficiently' confidential, false otherwise.
 */
/**
 * Use the HttpServerExchange to identify if confidentiality is required.
 *
 * This method currently returns true for all requests, sub-classes can override this to provide a custom check.
 *
 * TODO: we should deprecate this and just use a predicate to decide to execute the handler instead
 *
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return true if the request requires confidentiality, false otherwise.
 */
/**
 * All sub-classes are required to provide an implementation of this method, using the HttpServerExchange for the
 current
 * request return the address to use for a redirect should confidentiality be required and the request not be
 confidential.
 *
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return The {@link URI} to redirect to.
 */

Found in path(s):
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/security/handlers/AbstractConfidentialityHandler.java
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*/
/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 *
 * @return an array containing all of the elements in this deque
 */

Found in path(s):
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
jar/io/undertow/util/PortableConcurrentDirectDeque.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
jar/io/undertow/util/FastConcurrentDirectDeque.java

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  jar/io/undertow/server/handlers/cache/ResponseCachingStreamSinkConduit.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/websockets/core/protocol/version07/WebSocket07FrameSinkChannel.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/protocols/http2/HpackEncoder.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/protocols/alpn/OpenSSLAlpnProvider.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/io/UndertowInputStream.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/client/http/HttpClientExchange.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/server/protocol/ajp/AjpRequestParser.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/server/handlers/DateHandler.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/server/handlers/accesslog/ExtendedAccessLogParser.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/attribute/LoginAttribute.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/server/handlers/proxy/ProxyHandler.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/attribute/ConstantExchangeAttribute.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/util/RedirectBuilder.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/client/ajp/AjpClientExchange.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/client/ClientProvider.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/attribute/ExchangeAttributeBuilder.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/server/protocol/http/ALPNBannedCiphers.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/server/handlers/proxy/ProxyHandler.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/attribute/LocalServerNameAttribute.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/server/protocol/http/ALPNBannedCiphers.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/server/handlers/proxy/ProxyHandler.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/attribute/LocalServerNameAttribute.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/security/idm/IdentityManager.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/util/Protocols.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/websockets/core/AbstractReceiveListener.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/websockets/core/protocol/version07/WebSocket07PingFrameSinkChannel.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/server/AbstractServerConnection.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/server/handlers/proxy/HostTable.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/server/protocol/ajp/AjpRequestParseState.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/server/session/SessionListener.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/util/PathTemplate.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/websockets/core/protocol/version07/WebSocket07CloseFrameSinkChannel.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/server/handlers/NameVirtualHostHandler.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/conduits/WriteTimeoutStreamSinkConduit.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/server/handlers/builder/HandlerParser.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/server/predicate/MinContentSizePredicate.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/server/protocol/http/PipeliningBufferingStreamSinkConduit.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/conduits/DebuggingStreamSourceConduit.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/server/handlers/HandlerParser.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/server/predicate/MinContentSizePredicate.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/server/protocol/http/PipeliningBufferingStreamSinkConduit.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/conduits/DebuggingStreamSourceConduit.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/server/http2/Http2ClientExchange.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/security/implementations/ClientCertAuthenticationMechanism.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/websockets/core/protocol/version08/Hybi08Handshake.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/predicate/pathTemplatePredicate/PathTemplatePredicate.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/attribute/PathParameterAttribute.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/predicate/AndPredicate.java

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* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/util/AbstractAttachable.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/server/ListenerRegistry.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/server/TruncatedResponseException.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/websockets/extensions/PerMessageDeflateHandshake.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/server/DelegateOpenListener.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/util/ImmediatePooled.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/conduits/PreChunkedStreamSinkConduit.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/server/handlers/proxy/ProxyCallback.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/server/ExchangeCompletionListener.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/util/ConnectionUtils.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/server/handlers/encoding/AllowedContentEncodings.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources.jar/io/undertow/server/handlers/accesslog/LogFileHeaderGenerator.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/conduits/FinishableStreamSinkConduit.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/websockets/core/UTF8Output.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/attribute/DateTimeAttribute.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/server/session/SessionCookieConfig.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/util/SameThreadExecutor.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/util/ClosingChannelExceptionHandler.java

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/**
 * An extension to {AbstractConfidentialityHandler} that uses the Host header from the incoming message
 * and specifies the confidential address by just switching the port.
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */

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  jar/io/undertow/server/handlers/StuckThreadDetectionHandler.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/util/LegacyCookieSupport.java

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* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
  jar/io/undertow/protocols/ssl/SNIAlpnEngineManager.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-
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#
# io.undertow.protocols.ssl.SNIAlpnEngineManager
io.undertow.protocols.alpn.DefaultAlpnEngineManager

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 */
/**
 * Encodes and decodes to and from Base64 notation.
 * <p>
 * </p>
 * 
 * Example:
 * <p>
 * String encoded = Base64.encode( myByteArray );</p>
 * byte[] myByteArray = Base64.decode( encoded );
 * 
 * 
 * The <tt>options</tt> parameter, which appears in a few places, is used to pass several pieces of information to the encoder.
 * In the "higher level" methods such as encodeBytes( bytes, options ) the options parameter can be used to indicate such things

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as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered
dialects.

Note, according to RFC3548, Section 2.1, implementations should not add line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines by default.

The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );
```

to compress the data before encoding it and then making the output have newline characters.

Also...

```
String encoded = Base64.encodeBytes( crazyString.getBytes() );
```

Change Log:

- v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.
- v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.
- v2.3.5 - Fixed bug in encodeFromFile where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.
- v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped
streams. Also
* added experimental support for specifying a class loader when using the
* [decodeToObject(String, int, ClassLoader)] method.</li>
* v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its
CharEncoders and so
* forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException
explicitly
* inline.</li>
* v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be
so that the
* code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win
when using
* the [encodeBytesToBytes(byte[])] family of methods (and not using the gzip options which uses a
different mechanism
* with streams and stuff).</li>
* v2.3.1 - Added [encodeBytesToBytes(byte[], int, int, int)] and some similar helper methods to be
more efficient
* with memory by not returning a String but just a byte array.</li>
* v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes
queued up and
* finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to
everyone
* else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null
values or
* something similar. Here are some changes that may affect you:
* ul
* li>Does not break lines, by default. This is to keep in compliance with <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a></li>
* li>Throws exceptions instead of returning null values.</li>
* li>Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before
for people who
* were thorough in their own projects and then had gobs of javadoc warnings on this file.</li>
* ul
* li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files
v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to

support command line encoding/decoding from one file to the next. Also added these Base64 dialects:

The default is RFC3548 format.

Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in


Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves

lexical ordering as described in http://www.faqs.org/q/a/rfc-1940.html

Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new

Base64 dialects.

v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and

writing to and from files.

v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).

v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.

v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.
The code

now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally

things are

cleaner. You'll probably have to change some method calls that you were making to support the new options

format (int s that you "OR" together).

v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode( String s, boolean gzipCompressed )

Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed

base64 data in an otherwise "normal" stream (like an XML file).

v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added

the ability to GZip-compress objects before encoding them.

v1.4 - Added helper methods to read/write files.

v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.

v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.

v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.

v1.3.3 - Fixed I/O streams which were totally messed up.

</ul>

* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new

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* with plenty of well-wishing instead! Please visit `<a href="http://iharder.net/base64">http://iharder.net/base64</a>` periodically to check for updates or to contribute improvements.
*</p>
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

Found in path(s):
* /opt/cola/permits/1192266684_1629183538.22/0/undertow-core-2-0-32-final-sources-jar/io/undertow/websockets/core/protocol/version07/Base64.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/server/handlers/proxy/RouteParsingStrategy.java
* /opt/cola/permits/1192266684_1629183538.22/0/undertow/util/UrlDecodeException.java

1.503 certifi 2020.6.20
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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla’s root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.504 oslo-context 3.3.0

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  jar/org/owasp/esapi/crypto/CryptoToken.java

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  jar/org/owasp/esapi/waf/rules/ReplaceContentRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/waf/rules/GeneralAttackSignatureRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/waf/rules/AddHTTPOnlyFlagRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/waf/rules/PathExtensionRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/waf/ESAPIWebApplicationFirewallFilter.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/waf/rules/RuleUtil.java
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 * @author kevin.w.wall@gmail.com
 * @created 2007
 */

/**
 * Encrypts the provided plaintext and returns a ciphertext string using the
 * master secret key and default cipher transformation.
 * 
 * Compatibility with earlier ESAPI versions:
 * The symmetric encryption in ESAPI 2.0 and later is not compatible with the encryption in ESAPI 1.4
 * or earlier. Not only are the interfaces slightly different, but they format
 * of the serialized encrypted data is incompatible. Therefore, if you have
 * encrypted data with ESAPI 1.4 or earlier, you must first encrypt it and
 * then re-encrypt it with ESAPI 2.0. Backward compatibility with ESAPI 1.4
 * was proposed to both the ESAPI Developers and ESAPI Users mailing lists
 * and voted down. More details are available in the ESAPI document
 * 
 * Why this method is deprecated:
 * Most cryptographers strongly suggest
 * that if you are creating crypto functionality for general-purpose use,
 * at a minimum you should ensure that it provides authenticity, integrity,
 * and confidentiality. This method only provides confidentiality, but not
* authenticity or integrity. Therefore, you are encouraged to use
* one of the other encryption methods referenced below. Because this
* method provides neither authenticity nor integrity, it may be
* removed in some future ESAPI Java release. Note: there are some cases
* where authenticity / integrity are not that important. For instance, consider
* a case where the encrypted data is never out of your application's control. For
* example, if you receive data that your application is encrypting itself and then
* storing the encrypted data in its own database for later use (and no other
* applications can query or update that column of the database), providing
* confidentiality alone might be sufficient. However, if there are cases
* where your application will be sending or receiving already encrypted data
* over an insecure, unauthenticated channel, in such cases authenticity and
* integrity of the encrypted data likely is important and this method should
* be avoided in favor of one of the other two.
*
* @param plaintext
*    the plaintext { @code String } to encrypt. Note that if you are encrypting
*    general bytes, you should encrypt that byte array to a String using
*    "UTF-8" encoding.
*
* @return
*    the encrypted, base64-encoded String representation of 'plaintext' plus
*    the random IV used.
*
* @throws EncryptionException
*    if the specified encryption algorithm could not be found or another problem exists with
*    the encryption of 'plaintext'
*
* @see #encrypt(PlainText)
* @see #encrypt(SecretKey, PlainText)
*
* @deprecated As of 1.4.2; use { @link #encrypt(PlainText)) instead, which
* also ensures message authenticity. This method will be
* completely removed as of the next major release or point
* release (3.0 or 2.1, whichever comes first) as per OWASP
* deprecation policy.
*/

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* @created 2007
*/
/**
* An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack
* in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by
* either specially logging the event, logging out the current user, or invalidating the current user's account.
* <p>
* Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from
* anywhere and will not require a lot of special exception handling.
* *
* @author Jeff Williams (jeff.williams@aspectsecurity.com)
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/IntrusionException.java
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/**
* The method is ESAPI's Key Derivation Function (KDF) that computes a
* derived key from the { @code keyDerivationKey } for either
* encryption / decryption or for authentication.
* <p>
* <b>CAUTION:</b> If this algorithm for computing derived keys from the
* key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
* able to decrypt data previously encrypted with earlier / different versions
* of this method. Therefore, do not change this unless you are 100% certain that
* what you are doing will NOT change either of the derived keys for
* ANY "key derivation key" AT ALL!!!
* <p>
* <b>NOTE:</b> This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class [@code JavaEncryptor]
* and might be useful for someone implementing their own replacement class, but
* generally it is not something that is useful to application client code.
*
* @param keyDerivationKey A key used as an input to a key derivation function
* to derive other keys. This is the key that generally
* is created using some key generation mechanism such as
* { @link #generateSecretKey(String, int). The
* "input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key.
* @param keySize The cipher's key size (in bits) for the [@code keyDerivationKey].
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* <b>NOTE:</b> The derived key will have the same size as this.
* @param purpose The purpose for the derived key. Must be either the
* string "encryption" or "authenticity". Use "encryption" for
* creating a derived key to use for confidentiality, and "authenticity"
* for a derived key to use with a MAC to ensure message authenticity.
* @return The derived [@code SecretKey] to be used according
* to the specified purpose. Note that this serves the same purpose
* as "label" in section 5.1 of NIST SP 800-108.
* @throws NoSuchAlgorithmException The [@code keyDerivationKey] has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionExceptionIf "UTF-8" is not supported as an encoding, then
* this is thrown with the original [@code UnsupportedEncodingException]
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
* @deprecated Use[@code KeyDerivationFunction] instead. This method will be removed as of
* ESAPI release 2.1 so if you are using this, please change your code.
*/
/**
* Return true if specified cipher mode is one of those specified in the
* [@code ESAPI.properties] file that supports both confidentiality
* and authenticity (i.e., a "combined cipher mode" as NIST refers
* to it).
* @param cipherMode The specified cipher mode to be used for the encryption
  * or decryption operation.
* @return true if the specified cipher mode is in the comma-separated list
  * of cipher modes supporting both confidentiality and authenticity;
  * otherwise false.
* @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
*/

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* @created 2007
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/CSSCodec.java
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 * @created 2007
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationAvailabilityException.java
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/HTMLValidationRule.java
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationHostException.java
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/PercentCodec.java
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/MySQLCodec.java
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/WindowsCodec.java
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/StringUtilities.java
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Encoder.java
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AvailabilityException.java
* /opt/cola/permits/1136415171_1613765306.40/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/BaseValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/PushbackString.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/IntegerValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultRandomizer.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/DateValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/NumberValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/User.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultEncoder.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultIntrusionDetector.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/crypto/DefaultEncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationCredentialsException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/IntegrityException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationUploadException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/RequestRateThrottleFilter.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EncryptionException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationAccountsException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/access/AccessReferenceMap.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/IntrusionDetector.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/StringValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Logger.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ExecutorException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/SecurityWrapper.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/JavaScriptCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Authenticator.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultUser.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Randomizer.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/AccessController.java
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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/ESAPIFilter.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/permissions/EnterpriseSecurityPermission.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AccessControlException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EncodingException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/UnixCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/HTMLEntityCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/VBScriptCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/EncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/validation/CreditCardValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/CertificateException.java

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 * @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
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Found in path(s):
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created February 6, 2009
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/filters/ClickjackFilter.java

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 * 
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>
 * 
 * @created 2007
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/reference/DefaultValidator.java

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/**
 * OWASP Enterprise Security API (ESAPI)
/**
 * Encodes and decodes to and from Base64 notation.
 * Homepage: [http://iharder.net/base64](http://iharder.net/base64).
 *
 * The `options` parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * `encodeBytes(bytes, options)` the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.
 *
 * The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:
 *
 * ```
 * String encoded = Base64.encodeBytes(mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES);
 * ```
 *
 * to compress the data before encoding it and then making the output have no newline characters.

**Change Log**

* v2.2.2 - Fixed `encodeFileToFile` and `decodeFileToFile` to use the
  * `Base64.InputStream` class to encode and decode on the fly which uses
  * less memory than encoding/decoding an entire file into memory before writing.
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
  * when using very small files (~< 40 bytes).
* v2.2 - Added some helper methods for encoding/decoding directly from
one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* &lt;ol&gt;
  * &lt;li&gt;The default is RFC3548 format.&lt;/li&gt;
  * &lt;li&gt;Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
    URL and file name friendly format as described in Section 4 of RFC3548.
    http://www.faqs.org/rfcs/rfc3548.html&lt;/li&gt;
  * &lt;li&gt;Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
    URL and file name friendly format that preserves lexical ordering as described
    in http://www.faqs.org/qa/rfcc-1940.html&lt;/li&gt;
* &lt;/ol&gt;
* Special thanks to Jim Kellerman at &lt;a href="http://www.powerset.com/">http://www.powerset.com/</a&gt;
* for contributing the new Base64 dialects.
* &lt;/li&gt;
* &lt;li&gt;v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
  * some convenience methods for reading and writing to and from files.&lt;/li&gt;
* &lt;li&gt;v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
  * with other encodings (like EBCDIC).&lt;/li&gt;
* &lt;li&gt;v2.0.1 - Fixed an error when decoding a single byte, that is, when the
  * encoded data was a single byte.&lt;/li&gt;
* &lt;li&gt;v2.0 - I got rid of methods that used booleans to set options.
  * Now everything is more consolidated and cleaner. The code now detects
  * when data that's being decoded is gzip-compressed and will decompress it
  * automatically. Generally things are cleaner. You'll probably have to
  * change some method calls that you were making to support the new
  * options format (&lt;tt&gt;int&lt;/tt&gt;s that you "OR" together).&lt;/li&gt;
* &lt;li&gt;v1.5.1 - Fixed bug when decompressing and decoding to a
  * byte[] using &lt;tt&gt;decode( String s, boolean gzipCompressed )&lt;/tt&gt;.
  * Added the ability to "suspend" encoding in the Output Stream so
  * you can turn on and off the encoding if you need to embed base64
  * data in an otherwise "normal" stream (like an XML file).&lt;/li&gt;
* &lt;li&gt;v1.5 - Output stream pases on flush() command but doesn't do anything itself.
  * This helps when using GZIP streams.
  * Added the ability to GZip-compress objects before encoding them.&lt;/li&gt;
* &lt;li&gt;v1.4 - Added helper methods to read/write files.&lt;/li&gt;
* &lt;li&gt;v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.&lt;/li&gt;
* &lt;li&gt;v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
  * where last buffer being read, if not completely full, was not returned.&lt;/li&gt;
* &lt;li&gt;v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.&lt;/li&gt;
* &lt;li&gt;v1.3.3 - Fixed I/O streams which were totally messed up.&lt;/li&gt;
* &lt;/ul&gt;
* 
* &lt;p&gt;
* I am placing this code in the Public Domain. Do with it as you will.
* This software comes with no guarantees or warranties but with
* plenty of well-wishing instead!
* Please visit &lt;a href="http://iharder.net/base64">http://iharder.net/base64</a&gt;
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/accesscontrol/FileBasedACRs.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author kevin.w.wall@gmail.com
 * @created 2007
 *
 // Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
 // If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/crypto/JavaEncryptor.java
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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the { @code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * 
 * <p>
 * <b>CAUTION:</b> If this algorithm for computing derived keys from the
 * key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * 
 * <p>
 * <b>NOTE:</b> This method is generally not intended to be called separately.
 * It is used by ESAPI's reference crypto implementation class { @code JavaEncryptor}
 * and might be useful for someone implementing their own replacement class, but
 * generally it is not something that is useful to application client code.
 * 
*/
* @param keyDerivationKey A key used as an input to a key derivation function
to derive other keys. This is the key that generally
is created using some key generation mechanism such as
{@link #generateSecretKey(String, int)}. The
"input" key from which the other keys are derived.

* The derived key will have the same algorithm type
* as this key. This KDK cannot be null.
* @param keySize The cipher's key size (in bits) for the { code keyDerivationKey }.
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.

* \textit{Note:} The derived key will have the same size as this.
* @param purpose The purpose for the derived key. For the ESAPI reference implementation,
* [ code JavaEncryptor ], this \textit{must} be either the string "encryption" or
* "authenticity", where "encryption" is used for creating a derived key to use
* for confidentiality, and "authenticity" is used for creating a derived key to
* use with a MAC to ensure message authenticity. However, since parameter serves
* the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
* be set to anything other than [ code null ] or an empty string when called outside
* of [ code JavaEncryptor ].
* @return The derived [ code SecretKey ] to be used according
* to the specified purpose.
* @throws NoSuchAlgorithmException The { code keyDerivationKey } has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionExceptionIf "UTF-8" is not supported as an encoding, then
* this is thrown with the original [ code UnsupportedEncodingException ]
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
* /

Found in path(s):
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The reference implementation sets the work directory, escapes the parameters as per the Codec in use, and then executes the command without using concatenation. The exact, absolute, canonical path of each executable must be listed as an approved executable in the ESAPI properties. The executable must also exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if you are going to invoke this interface with confidential information.

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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/Log4JLogger.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a><br>
 * @created 2007<br>
 */**<br>
 *<br>
 * Executes a system command after checking that the executable exists and<br>
 * escaping all the parameters to ensure that injection is impossible.<br>
 * Implementations must change to the specified working<br>
 * directory before invoking the command.<br>
 *<br>
 * @param executable<br>
 * the command to execute<br>
 * @param params<br>
 * the parameters of the command being executed<br>
 * @param workdir<br>
 * the working directory<br>
 * @param codec<br>
 * the codec to use to encode for the particular OS in use<br>
 * @param logParams<br>
 * use false if any parameters contains sensitive or confidential information<br>
 *<br>
 * @return the output of the command being run<br>
 *<br>
 * @throws ExecutorException<br>
 * the service exception
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Executor.java
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 * 
 * @created 2007
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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/ValidationErrorList.java
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/SecurityWrapperRequest.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/SecurityWrapperResponse.java
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/**
 * This method adds a provider to the SecurityManager
 * either by some generic name or by the class name.
 * </p><p>
 * The following generic JCE provider names are built-in:
 * </ul>
 * <li>SunJCE</li>
 * <li>IBMJCE [for WebSphere]</li>
 * <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
 * <li>BC [i.e., Bouncy Castle]</li>
 * <li>IAIK</li>
 * <li>CryptixCrypto (or Cryptix)</li>
 * <li>ABA</li>
 * </ul>
 * Note that neither Cryptix or ABA are actively maintained so
 * it is recommended that you do not start using them for ESAPI
 * unless your application already has a dependency on them. Furthermore,
 * the Cryptix JCE jars likely will not work as the Cryptix code signing
 * certificate has expired as of August 28, 2009. (This likely is true
 * for ABA, but I can't even find a copy to download!). Lastly, the IAIK
 * provider is no longer offered as free, open source. It is not a
 * commercial product. See (link http://jce.iaik.tugraz.at/) for
 * details. While some older versions were offered free, it is not clear
 * whether the accompanying license still allows you to use it, and if
 * it does, whether or not the code signing certificate used to sign
 * their JCE jar(s) has expired are not. Therefore, if you are looking
 * for a FOSS alternative to SunJCE, Bouncy Castle
 * ([link http://www.bouncycastle.org/] is probably your best bet. The
 * BC provider does support many of the "combined cipher modes" that provide
 * both confidentiality and authenticity. (See the ESAPI.properties
 * property [link Encryptor.cipher_modes.combined_modes] for details.)
 * </p><p>
 * For those working in the U.S. federal government, it should be noted
 * that <i>none</i> of the providers listed here are considered validated
 * by NIST's Cryptographic Module Validation Program and are therefore
 * not considered FIPS 140-2 compliant. There are a few approved
 * JCE compatible Java libraries that are on NIST's CMVP list, but this
 * list changes constantly so they are not listed here. For further details
 * on NIST's CMVP, see
 * ([link http://csrc.nist.gov/groups/STM/cmvp/index.html].
 * </p><p>
 * Finally, if you wish to use some other JCE provider not recognized above,
 * you must specify the provider's fully-qualified class name (which in
 * turn must have a public, no argument constructor).
 * </p><p>
 * The application must be given the SecurityPermission with a
* value of { @code insertProvider.&lt;provider_name&gt;} (where
* &lt;provider_name&gt; is the name of the algorithm provider if
* a security manager is installed.
* &lt;/p&gt;
*
* @param algProvider Name of the JCE algorithm provider. If the name
* contains a ".", this is interpreted as the name
* of a { @code java.security.Provider} class name.
* @param pos The preference position (starting at 1) that the
* caller would like for this provider. If you wish
* for it to be installed as the &lt;i&gt;last&lt;/i&gt; provider
* (as of the time of this call), set { @code pos} to -1.
* @return The actual preference position at which the provider was added,
* or -1 if the provider was not added because it is already
* installed.
* @exception NoSuchProviderException - thrown if the provider class
* could not be loaded or added to the { @code SecurityManager} or
* any other reason for failure.
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/crypto/SecurityProviderLoader.java
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* @author Mike Fauzy &lt;a href="http://www.aspectsecurity.com">Aspect Security</a&gt;
* @author Jeff Williams &lt;a href="http://www.aspectsecurity.com">Aspect Security</a&gt;
* @created 2007
*/
/**
* Return a { @code List} of strings of combined cipher modes that support
* confidentiality and authenticity. These would be preferred
* cipher modes to use if your JCE provider supports them. If such a
* cipher mode is used, no explicit &lt;i&gt;separate&lt;/i&gt; MAC is calculated as part of
* the { @code CipherText} object upon encryption nor is any attempt made
* to verify the same on decryption.
* The list is taken from the comma-separated list of cipher modes specified
* by the ESAPI property
* [@code Encryptor.cipher_modes.combined_modes].
*
* @return The parsed list of comma-separated cipher modes if the property
* was specified in [@code ESAPI.properties]; otherwise the empty list is
* returned.
*/

Found in path(s):
*/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/SecurityConfiguration.java

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 * @created 2008
 */

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*/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/SafeFile.java

1.511 fsnotify 1.4.8

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1.512 python-status 1.0.1

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For `status.py` file:

originally from: https://github.com/tomchristie/django-rest-framework/blob/master/LICENSE.md

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1.513 grpc-netty 1.20.0

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* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/MaxConnectionIdleManager.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/KeepAliveEnforcer.java

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* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/SendResponseHeadersCommand.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyReadableBuffer.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyChannelBuilder.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/SendGrpcFrameCommand.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyServerHandler.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NegotiationType.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/CreateStreamCommand.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyClientHandler.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/Utils.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyServerTransport.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyServerStream.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/CancelClientStreamCommand.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyClientTransport.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyServerBuilder.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyServer.java

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* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/InternalNettySocketSupport.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettySocketSupport.java
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* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/ProtocolNegotiationEvent.java
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* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/ProtocolNegotiator.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/WriteQueue.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyWritableBufferAllocator.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/JettyTlsUtil.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/AbstractNettyHandler.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/SendPingCommand.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/GrpcSslContexts.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/package-info.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyServerProvider.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/CancelServerStreamCommand.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/ProtocolNegotiators.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyChannelProvider.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/NettyClientStream.java

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* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-
jar/io/grpc/netty/NettyHandlerSettings.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/HandlerSettings.java
* /opt/cola/permits/1142949798_1615493952.58/0/grpc-netty-1-20-0-sources-jar/io/grpc/netty/InternalHandlerSettings.java
1.514 assertj-core 3.11.1

1.515 thymeleaf 3.0.11.RELEASE

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* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/FluxDoFirstFuseable.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/MonoDoFirst.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/FluxDoFirst.java
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* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/FluxBufferBoundary.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/MonoFunctions.kt
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/scheduler/SchedulerMetricDecorator.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/FluxWindowPredicate.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/FluxConcatMap.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/FluxOnBackpressureBufferTimeout.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/FluxWindowPredicate.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/FluxMetrics.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/ReplayProcessor.java
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* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/FluxBufferPredicate.java
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* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1.jar/reactor/core/publisher/MonoWhen.java
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* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1-jar/reactor/core/CorePublisher.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1-jar/reactor/core/publisher/WorkQueueProcessor.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1-jar/reactor/util/concurrent/SpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1-jar/reactor/core/publisher/TopicProcessor.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1-jar/reactor/core/publisher/EventLoopProcessor.java

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* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1-jar/reactor/core/publisher/MonoErrorSupplied.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1-jar/reactor/core/publisher/SourceProducer.java
* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1-jar/reactor/core/publisher/FluxErrorSupplied.java

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* /opt/ws_local/PERMITS_SQL/1070623877_1594725493.36/0/reactor-core-3-3-1-release-sources-1-jar/reactor/util/annotation/NonNull.java

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* /opt/cola/permits/1135892722_1613627041.37/0/spring-aop-5-2-10-release-sources-1-
  jar/org/springframework/aop/framework/ProxyMethodInvocation.java
* /opt/cola/permits/1135892722_1613627041.37/0/spring-aop-5-2-10-release-sources-1-
  jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
* /opt/cola/permits/1135892722_1613627041.37/0/spring-aop-5-2-10-release-sources-1-
  jar/org/springframework/aop/TargetClassAware.java
* /opt/cola/permits/1135892722_1613627041.37/0/spring-aop-5-2-10-release-sources-1-
  jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java

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* /opt/cola/permits/1135892722_1613627041.37/0/spring-aop-5-2-10-release-sources-1.jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
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* /opt/cola/permits/1150251494_1627682064.76/0/jung-algorithms-2-1-1-sources-jar/edu/uci/ics/jung/algorithms/layout/CircleLayout.java
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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/ModelNameContext.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultGenericTypeNamingStrategy.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultModelProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/FactoryMethodProvider.java
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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/JaxbPresentInClassPathCondition.java
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1.538 maven-toolchain 2.0.9

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* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-
jar/org/codehaus/plexus/archiver/tar/TarGZipUnArchiver.java
* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-
jar/org/codehaus/plexus/archiver/zip/ZipArchiver.java
* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-
jar/org/codehaus/plexus/archiver/jar/JdkManifestFactory.java
* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-
jar/org/codehaus/plexus/archiver/AbstractUnArchiver.java
* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-
jar/org/codehaus/plexus/archiver/gzip/GZipUnArchiver.java
* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-
jar/org/codehaus/plexus/archiver/jar/ManifestException.java
* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-
jar/org/codehaus/plexus/archiver/jar/Manifest.java
* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-
jar/org/codehaus/plexus/archiver/zip/ZipUnArchiver.java
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jar/org/codehaus/plexus/archiver/zip2/BZip2Archiver.java
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jar/org/codehaus/plexus/archiver/UnArchiver.java
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jar/org/codehaus/plexus/archiver/AbstractArchiver.java
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jar/org/codehaus/plexus/archiver/tar/TarBZip2UnArchiver.java
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jar/org/codehaus/plexus/archiver/util/Compressor.java
* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-
jar/org/codehaus/plexus/archiver/jar/ManifestConstants.java
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* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-jar/org/codehaus/plexus/archiver/tar/PlexusIoTarXZFileResourceCollection.java
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* /opt/cola/permits/1150251337_1627682077.87/0/plexus-archiver-3-5-sources-jar/org/codehaus/plexus/archiver/xz/XZCompressor.java
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* /opt/cola/permits/1150250747_1627682118.38/0/wildfly-elytron-http-basic-1-10-3-final-sources-jar/org/wildfly/security/http/basic/BasicAuthenticationMechanism.java
No license file was found, but licenses were detected in source scan.

/*
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1.547 keyutils 1.5.8 3.el7

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) *
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
* M. Welsh, 6 July 1996
* *
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1.561 javax-websocket-client-impl
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---

teardown:
  - do:
    license.post:
      acknowledge: true
      body: |
        ["licenses":{"uid":"3aa62ffe-36e1-4fad-bfdc-9ddf8301eb22","type":"trial","issue_date_in_millis":1523456691721,"expiry_date_in_millis":1838816691721,"max_nodes":5,"issued_to":"customer","issuer":"elasticsearch","signature":"AAAAABAAAAA2lWNcuc+DT0rImYZKAAAAIa5/6hrsGhIqqtJmy4qmmEC7gK0U4zq6s5ZEMhm4jAAAAABEn6fG9yV2xKbu2T35hfhh56kzOQQODC0dhr0y2d17ZIJIMZRqO7ZywPCWNS1aR33GhiHKTER0ysML0xMH/gXavhyRvMBndj0UBKzuwpTawSlnxYtcqN8mSBivJC7k+iSU1PsAll2ZC29fnkRlgwXqBIfwYn7xnZgu9DKrOwu/ipTPObo7jciePl8VT6q6Wfen7hFCDFQrTUzFy5qvd+nq7ALPacHGGxGfdhMVMxAXCxGxWkrRfT3cI09/avdgoisNyhiSp9mN7gswvBAkta1FrpH2EXYybf0SpBvUmhYMgErLg1k3/CbS0pCWLFKoaX1xTMayosdZOjagU3auZXYY=","start_date_in_millis":-1}]

---

"Installing and getting license works":

## current license version
  - do:
    license.post:
      acknowledge: true
      body: |
        ["licenses":{"uid":"894731dc-9t49-4997-93cb-802e3r7faa8","type":"trial","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1916956799999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAgAAAA0FWh0T9njltjQ2qammAAABmC9Z0hjZ2BgynYyRxpxC0OW5Bbb3fjZDXa0WpSbTvOvMzvUrzRvK1PSmkxaxXzD5WIMhITHNoN1N2XMvRfk4d3ITZEYx3t3R2vZKv0pZULvWJkQvSFnv0ppTHBkwKprZWSQ9iNmRQkw1sLpL0No1aZCS095MXRGN11IZlpYcVVTThFrcTE2dZhlZmZrdFQrN3JQeGwxb0U0MXZ0dDJHSEriZTVLOHnzSDByWnpoZEpHZHEBzJUrTVBxRennxSnswWjZlalOdzxvMezUJnWxkntNGW5TMuhQV2pUna04QJ0Uml4MKn0LUl0SOehQaVb2a2znmUk9QvzFhFeTf0MiQ0RnX5G35MmxK2K055c28zSmRnVrf1b2i5QfKFLV2VXUmVHNDZ2R3o2VE1qLVQ52s1XOHN5bUBerZIN1WkZsvMmZIWEtSU9wTTTJENDVvT1NCYklacUyYk2FwRwRx065dDMbmmMzSGiQc3FWOTg2Z3UCxMvQx2t2RZwMFMJnZzdVL2d2bDRWUZuh6U5mpENGWFReXNKKnkE9PQAABZhtvzoA0
- match: { license_status: "valid" }
  - do:
    license.get: {}

## a license object has 11 attributes
- length: { license: 11 }

## bwc for licenses format
- do:
  license.post:
  acknowledge: true
  body: |
  {"licenses"}:[{"uid":"893361dc-9749-4997-93cb-802ce3d7fa4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":191427899999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null}]

- match: { license_status: "valid" }
  - do:
    license.get: {}
  - length: { license: 11 }

## license version: 1.x
- do:
  license.post:
  acknowledge: true
  body: |
  {"licenses"}:[{"uid":"893361dc-9749-4997-93cb-802ce3d7fa4a8","type":"subscription","subscription_type":"gold","issue_date_in_millis":1411948800000,"feature":null}]
shield", "expiry_date_in_millis":191427839999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null,"AAAQQAAAAO0LVaywpwSH94cyXr4zAABmC9ZN0hjZDBGYnVyRxpcOW5Bb3FjZDAXOWpSbTvO
MVZwUzRxVkiPSmkxakxZdW5IMlhITHNoN1N2MXMrVFk4d3JTZeX3R3RRZ0pzU3lobWKJdZQvQSEFva0pp
THBkWkprZWZSQi91NmRQkVv1sIpL0I0lalZC0595MRXGN1I1ZlZyYcVVTtTnFrcTE2dzhZmnZrdFqN3QeG
wbxUb0U0MXZoDJDHiSERiZTVLOHnzSDbyWapoZEpHZEBEZJUrTVbBSRENSXNSwWWjZllaOdDzVmeEuJNi
WktNWGM5TuHQV2p2uaQ0JQU0u4MNXuL0pSOeHqVaB2azhmUk9QVzhFeTFoMIQ0RaJXSG53MwK2K0
055c28zSmRnVkfbi2JSQkFLv2VXUvMvHNDZ2R3o2VE1qvbVNSQ2lxOHN5bUeRZINiWkZSmvZlWvEtuU9w9
TTJENDvTv1NCYlakcUYkZrFw9xoa6dldmMmBmGtQc3FW0tGzzZUcmVkt2RUzwMfJnzlvL2d2
bDRWUzhbU5pdENGFwrEcXNKNeKF9PAAQ4acscCVRZUvdFwSedwy9qdyqYBQLWYliAYPV5XHHH
dtk+dzpZlepNEdKUXhSX2waVTlsNRf8/4kqplDfwOnD2TU88fTgisiZyYGDgST+y/5eAveEU5jvliBN27b
wkqlv+V4YAAo0Tcm7NZKkwy8WkAHITU3V8c8phGKCH0EQGwPC98REE28tp0s6/tU4PILGmFqPM0u5E5n
ucFvt98jQio/KA/TzyFb07VNTXnZXq7T77ZwCB9PkJjptXzcWuk08Q5r+sSoYNyb03HGKtrCVRz/55cCnTd
wKXXuIwnSeir4r1/KlduQTFLy0+1th87VS8T88UTC}}]

- match: { license_status: "valid" }
- do:
  - license.get: {}
- length: { license: 11 }

## multiple licenses version: 1.x
- do:
  - license.post:
    - acknowledge: true
    - body: |
      
      ```json
      "licenses": ["uid": "893361dc-9749-4997-93cb-8023e3df4aa8","type": "internal","subscription_type": "none","issue_date_in_millis": 1411948800000,"feature": "shield","expiry_date_in_millis": 1440892799999,"max_nodes": 1,"issued_to": null,"issuer": null,"signature": null,"AAAQQAAAAO0LVaywpwSH94cyXr4zAABmC9ZN0hjZDBGYnVyRxpcOW5Bb3FjZDAXOWpSbTvO
MVZwUzRxVkiPSmkxakxZdW5IMlhITHNoN1N2MXMrVFk4d3JTZeX3R3RRZ0pzU3lobWKJdZQvQSEFva0pp
THBkWkprZWZSQi91NmRQkVv1sIpL0I0lalZC0595MRXGN1I1ZlZyYcVVTtTnFrcTE2dzhZmnZrdFqN3QeG
wbxUb0U0MXZoDJDHiSERiZTVLOHnzSDbyWapoZEpHZEBEZJUrTVbBSRENSXNSwWWjZllaOdDzVmeEuJNi
WktNWGM5TuHQV2p2uaQ0JQU0u4MNXuL0pSOeHqVaB2azhmUk9QVzhFeTFoMIQ0RaJXSG53MwK2K0
055c28zSmRnVkfbi2JSQkFLv2VXUvMvHNDZ2R3o2VE1qvbVNSQ2lxOHN5bUeRZINiWkZSmvZlWvEtuU9w9
TTJENDvTv1NCYlakcUYkZrFw9xoa6dldmMmBmGtQc3FW0tGzzZUcmVkt2RUzwMfJnzlvL2d2
bDRWUzhbU5pdENGFwrEcXNKNeKF9PAAQ4acscCVRZUvdFwSedwy9qdyqYBQLWYliAYPV5XHHH
dtk+dzpZlepNEdKUXhSX2waVTlsNRf8/4kqplDfwOnD2TU88fTgisiZyYGDgST+y/5eAveEU5jvliBN27b
wkqlv+V4YAAo0Tcm7NZKkwy8WkAHITU3V8c8phGKCH0EQGwPC98REE28tp0s6/tU4PILGmFqPM0u5E5n
ucFvt98jQio/KA/TzyFb07VNTXnZXq7T77ZwCB9PkJjptXzcWuk08Q5r+sSoYNyb03HGKtrCVRz/55cCnTd
wKXXuIwnSeir4r1/KlduQTFLy0+1th87VS8T88UTC}}]
```
8zSmRnVkfB12JQkFLV2XUmVHDN2Z2R3o2VE1qbVNQS2IxoOHN5bUErzINiWksZSVmZ1WEaSU9wTWTEN DvT1NCYkiaUYyK2FwRW9xa0t6dIdMbmZsSGIQc3FWOTgZ3ZUCxXMvQkt2RUZwMFJnZzlvL2d2bDRW Uzh6UG5pdENGWFr2NXKNkE9PQAQAQQ94du0pnDZ3R3Uuypi0ic3aQI+nvVqe+U8u79Dga5n1IjclHDh7H vIBJkFe7+tnVPlO/PXV/x7BZSwvVY1PvErit+6rYi1xuHEgqwxxvmrVdR1CjuZM6tk0Ob4dZCZPvUbn2Mmk89KH C/PwILpQqF6QfwfKp88k2A3ORJmvYSDvXhe6tC5d9C4ebrsBxqIznW5SCdZqZBFXIngDv2N0hHnpGlueR szD0IJ5dEL5ZAdODrgO90JOvEjSHyQe1L5QRUNdXPFv4b9mEPcPnVjbw6iq2/YmGmCuzTSX VBY7ij4WnoP3ce7Zjs9TWhHn+IqzftC6’]]

- match: { license_status: "valid" }

- do:
  license.get: {}

- length: { license: 11 }
- match: { license.uid: "893361dc-9749-4997-93cb-802e3dofh7aa" }

---

"Should throw 404 after license deletion":
- do:
  license.delete: {}
- match: { acknowledged: true }

- do:
  license.get: {}
  catch: missing

---

"Should install a feature type license":

```
# VERSION_NO_FEATURE_TYPE license version
- do:
  license.post:
    acknowledge: true
    body: |
    {
      "license": {
        "uid": "893361dc-9749-4997-93cb-802e3dofh7aa",
        "type": "gold",
        "issue_date_in_millis": 1411948800000,
        "expiration_date_in_millis": 191247399999,
        "max_nodes": 1,
        "issued_to": "issued_to",
        "issuing_entity": "issuing_entity",
        "signature": "Signature"
      }"```
- match: { license_status: "valid" }

- do:
  license.get: {}

- length: { license: 11 }

---

"Cannot start basic":

- do:
  catch: bad_request
  license.post:
    acknowledge: true
    body: |
      
        
      "Cannot start basic":

- match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST /_license/start_basic API to install a basic license that does not expire.' }

---

"Should fail gracefully when body content is not provided":

- do:
  catch: bad_request
  license.post:
    acknowledge: true

- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }

---

"Current license is trial means not eligible to start trial":

- do:
  license.get_trial_status: {}

- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }

---

"Current license is trial means not eligible to start trial":

- do:
  license.get_trial_status: {}
- match: { eligible_to_start_trial: false }

- do:
  license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }

- do:
  license.get_trial_status: {}

- match: { eligible_to_start_trial: false }

- do:
  catch: forbidden
  license.post_start_trial:
    acknowledge: true

- match: { trial_was_started: false }
- match: { error_message: "Operation failed: Trial was already activated." }  
---
"Trial license cannot be basic":
- do:
  catch: bad_request
  license.post_start_trial:
    type: "basic"
    acknowledge: true
---
"Can start basic license if do not already have basic":
- do:
  license.get_basic_status: {}

- match: { eligible_to_start_basic: true }

- do:
  license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }
- match: { acknowledged: true }

- do:
  license.get_basic_status: {}

- match: { eligible_to_start_basic: false }

- do:
  catch: forbidden
license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }
---
"Must acknowledge to start basic":
- do:
  license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: false }
- match: { error_message: "Operation failed: Needs acknowledgement." }
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* https://github.com/eclipse-ee4j/javamail

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Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)

- VT Middleware: Cryptacular
  - Version: 1.0.1
  - Description: The friendly complement to the BouncyCastle crypto API for Java.
  - Available on GitHub: [cryptacular](https://github.com/vt-middleware/cryptacular)
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 5443
Open Source Used in Cisco Nexus Dashboard Fabric Controller 12.0(1) 5457
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The license can be deleted using the `deleteLicense()` method:

```java
context, java, subs="attributes,callouts,macros"
--------------------------------------------------
include-tagged: [doc-tests]/LicensingDocumentationIT.java[delete-license-execute]
--------------------------------------------------
```

The returned `DeleteLicenseResponse` contains the `acknowledged` flag, which returns true if the request was processed by all nodes.

```java
context, java, subs="attributes,callouts,macros"
--------------------------------------------------
include-tagged: [doc-tests]/LicensingDocumentationIT.java[delete-license-response]
--------------------------------------------------
<1> Check the acknowledge flag. It should be true if license deletion is acknowledged.

This request can be executed asynchronously:

```java
context, java, subs="attributes,callouts,macros"
--------------------------------------------------
include-tagged: [doc-tests]/LicensingDocumentationIT.java[delete-license-execute-async]
--------------------------------------------------
<1> The `DeleteLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is
completed the `ActionListener` is called back using the `onResponse` method if
the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `DeleteLicenseResponse` looks like:

```java
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-execute-listener]
```

<1> Called when the execution is successfully completed. The response is provided as an argument
<2> Called in case of failure. The raised exception is provided as an argument

Nimbus OAuth 2.0 SDK with OpenID Connect extensions

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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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```yaml
[role="xpack"]
[[license-settings]]
```  

=== License settings

You can configure this licensing setting in the `elasticsearch.yml` file. For more information, see

[stack-ov]/license-management.html[License management].

`xpack.license.self_generated.type`::

Set to `basic` (default) to enable basic `xpack` features. +
+
--

If set to `trial`, the self-generated license gives access only to all the features of a x-pack for 30 days. You can later downgrade the cluster to a basic license if needed.

--

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[role="xpack"]
[testenv="basic"]
[[update-license]]

=== Update license API
++++
<titleabbrev>Update license</titleabbrev>
++++

This API enables you to update your license.

[float]
==== Request

`PUT /_license`
You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

`acknowledge`:
(boolean) Specifies whether you acknowledge the license changes. The default value is `false`.

`licenses`:
(array) A sequence of one or more JSON documents containing the license information.

If [es] [security-features] are enabled, you need `manage` cluster privileges to install the license.

If [es] [security-features] are enabled and you are installing a gold or platinum license, you must enable TLS on the transport networking layer before you install the license. See <<configuring-tls>>.

The following example updates to a basic license:

```javascript
POST /_license
{
  "licenses": [
```
NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can also install your license file using a `curl` command. Be sure to add `@` before the license file path to instruct `curl` to treat it as an input file.

```bash
curl -XPUT -u <user> 'http://<host>:<port>/_license' -H "Content-Type: application/json" -d @license.json
```

On Windows, use the following command:

```bash
Invoke-WebRequest -uri http://<host>:<port>/_xpack/license -Credential elastic -Method Put -ContentType "application/json" -InFile .\license.json
```

In these examples,

* `"<user>"` is a user ID with the appropriate authority.
* `"<host>"` is the hostname of the `{es}` node (`localhost` if executing locally)
* `"<port>"` is the http port (defaults to `9200`)
* `"license.json"` is the license JSON file

NOTE: If your `{es}` node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you
receive the following response:

[source.js]

```json
{
  "acknowledged": false,
  "license_status": "valid",
  "acknowledge": {
    "message": "This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the "acknowledge=true" parameter:
    "watcher": [
      "Watcher will be disabled"
    ],
    "logstash": [
      "Logstash will no longer poll for centrally-managed pipelines"
    ],
    "security": [
      "The following X-Pack security functionality will be disabled: ...
    ]
  }
}
```

// NOTCONSOLE

To complete the update, you must re-submit the API request and set the `acknowledge` parameter to `true`. For example:

[source.js]

```json
POST /_license?acknowledge=true
{
  "licenses": [
    {
      "uid":"893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type": "basic",
      "issue_date_in_millis":1411948800000,
      "expiry_date_in_millis":1914278399999,
      "max_nodes":1,
      "issued_to": "issuedTo",
      "issuer": "issuer",
      "signature": "xx"
    }
  ]
}
```

// CONSOLE

// TEST[skip:license testing issues]

Alternatively:
curl -XPUT -u elastic 'http://<host>:<port>/_license?acknowledge=true' -H "Content-Type: application/json" -d @license.json

// NOTCONSOLE

For more information about the features that are disabled when you downgrade your license, see {xpack-ref}/license-expiration.html[License Expiration].

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---

Delete license API

This API enables you to delete licensing information.

DELETE /_license

This API enables you to delete licensing information.
You must have `manage` cluster privileges to use this API. For more information, see
{xpack-ref}/security-privileges.html[Security Privileges].

[<float>]

==== Examples

The following example queries the info API:

[source.js]

```
------------------------------------------------------------
DELETE /_license
```

// CONSOLE

// TEST[skip:license testing issues]

When the license is successfully deleted, the API returns the following response:

[source.js]

```
{
  "acknowledged": true
}
```

// NOTCONSOLE

test is a test license file

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[role="xpack"]
[tev="basic"]
[[get-license]]
=== Get license API
++++
<titleabbrev>Get license</titleabbrev>
++++

This API enables you to retrieve licensing information.
Request

`GET /_license`

Description

This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

Query Parameters

`local`:

(bool) Specifies whether to retrieve local information. The default value is `false`, which means the information is retrieved from the master node.

Authorization

You must have `monitor` cluster privileges to use this API. For more information, see {xpack-ref}/security-privileges.html[Security Privileges].

Examples

The following example provides information about a trial license:

```javascript

{  
  "license": {  
    "status": "active",
    "uid": "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
  }
}
```

```javascript

// CONSOLE
```
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## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages. SnakeYAML is a YAML processor for the Java Virtual Machine.

### SnakeYAML features ###

* a complete [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

### Info ###

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

### Contribute ###

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
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[[java-rest-high-get-license]]
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The license can be added or updated using the `getLicense()` method:

```java
[
  "source", "java",
  "subs"="attributes,callouts,macros"
]
```

---

include-tagged:::{doc-tests}/LicensingDocumentationIT.java[get-license-execute]

---

```java
[
  [java-rest-high-get-license-response]
]
```

---

The returned `GetLicenseResponse` contains the license in the JSON format.

```java
[
  "source", "java",
  "subs"="attributes,callouts,macros"
]
```

---

include-tagged:::{doc-tests}/LicensingDocumentationIT.java[get-license-response]

---

<1> The text of the license.

```java
[
  [java-rest-high-get-license-async]
]
```

---

The request can be executed asynchronously:

```java
[
  "source", "java",
  "subs"="attributes,callouts,macros"
]
```

---

include-tagged:::{doc-tests}/LicensingDocumentationIT.java[get-license-execute-async]

---

<1> The `GetLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `GetLicenseResponse` looks like:

```java
[
  "source", "java",
  "subs"="attributes,callouts,macros"
]
```

---

include-tagged:::{doc-tests}/LicensingDocumentationIT.java[get-license-execute-listener]

---

<1> Called when the execution is successfully completed. The response is provided as an argument

<2> Called in case of failure. The raised exception is provided as an argument

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== Update License

== Execution

The license can be added or updated using the `putLicense()` method:

```java
"source", "java", subs="attributes,callouts,macros"
--------------------------------------------------------------------
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-execute]
--------------------------------------------------------------------
<1> Set the categories of information to retrieve. The default is to return no information which is useful for checking if {xpack} is installed but not much else.
<2> A JSON document containing the license information.
```

== Response

The returned `PutLicenseResponse` contains the `LicensesStatus`, `acknowledged` flag and possible acknowledge messages. The acknowledge messages are present if you previously had a license with more features than one you are trying to update and you didn't set the `acknowledge` flag to `true`. In this case you need to display the messages to the end user and if they agree, resubmit the license with the `acknowledge` flag set to `true`. Please note that the request will still return a 200 return code even if requires an acknowledgement. So, it is necessary to check the `acknowledged` flag.

```java
"source", "java", subs="attributes,callouts,macros"
--------------------------------------------------------------------
```
<1> The status of the license

<2> Make sure that the license is valid.

<3> Check the acknowledge flag. It should be true if license is acknowledged.

<4> Otherwise we can see the acknowledge messages in `acknowledgeHeader()`

<5> and check component-specific messages in `acknowledgeMessages()`.

[[java-rest-high-put-license-async]]

==== Asynchronous Execution

This request can be executed asynchronously:

["source","java",subs="attributes,callouts,macros"]

include-tagged::[doc-tests]/LicensingDocumentationIT.java[put-license-execute-async]

<1> The `PutLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `PutLicenseResponse` looks like:

["source","java",subs="attributes,callouts,macros"]

include-tagged::[doc-tests]/LicensingDocumentationIT.java[put-license-execute-listener]

<1> Called when the execution is successfully completed. The response is provided as an argument

<2> Called in case of failure. The raised exception is provided as an argument

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The snowball stemmers in
   analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
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   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
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   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,
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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
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   analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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   analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
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   analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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CyberNeko HTML Parser
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NekoHTML is a simple HTML scanner and tag balancer that enables
application programmers to parse HTML documents and access the
information using standard XML interfaces. The parser can scan HTML
files and "fix up" many common mistakes that human (and computer)
authors make in writing HTML documents. NekoHTML adds missing parent
elements; automatically closes elements with optional end tags; and can
handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the
foundation of the Xerces2 implementation. This enables you to use the
NekoHTML parser with existing XNI tools without modification or
rewriting code.
jackson-jq
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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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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

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

```
<copyField source="cat" dest="text" maxChars="30000" />
```

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]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----

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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
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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)
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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:

- `GermanLightStemmer.java`
- `GermanMinimalStemmer.java`
- `SpanishLightStemmer.java`
- `FinnishLightStemmer.java`
- `FrenchLightStemmer.java`
- `FrenchMinimalStemmer.java`
- `HungarianLightStemmer.java`
- `ItalianLightStemmer.java`
- `PortugueseLightStemmer.java`
- `RussianLightStemmer.java`
- `SwedishLightStemmer.java`

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 (smarten) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

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1.575 hibernate 5.4.12.Final

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1.576 c-ares 1.12.1-DEV

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1.579 jackson-module-parameter-names

2.10.1

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1.580 surefire-junit4 2.12.4

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1.581 jersey-client 1.19.4

1.582 python-setuptools 41.2.0

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1.583 guava 20.0

1.584 eclipse-jgit 4.4.1.201607150455-r
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/fnmatch/CharacterHead.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
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  jar/org/eclipse/jgit/transport/SideBandInputStream.java
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  jar/org/eclipse/jgit/transport/WalkFetchConnection.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4-1-201607150455-r-sources-
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/treewalk/filter/PathFilter.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/transport/RemoteRefUpdate.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/internal/storage/file/PackReverseIndex.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/api/RemoteAddCommand.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/api/RemoteListCommand.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/api/RemoteSetUrlCommand.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/api/RemoteRemoveCommand.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
  jar/org/eclipse/jgit/treewalk/filter/PathFilterGroup.java
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jar/org/eclipse/jgit/revwalk/RevCommit.java
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jar/org/eclipse/jgit/revwalk/RevCommit.java

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*/opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/util/io/ThrowingPrintWriter.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-jar/org/eclipse/jgit/transport/PacketLineOut.java

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/**
 * A special exception thrown when [AutoLFInputStream] is told to
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 *
 * @since 3.3
 */

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
jar/org/eclipse/jgit/merge/SquashMessageFormatter.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/transport/resolver/ServiceNotEnabledException.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/util/io/DisabledOutputStream.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/transport/resolver/RepositoryResolver.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/transport/resolver/UploadPackFactory.java

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  jar/org/eclipse/jgit/attributes/AttributesNode.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
  jar/org/eclipse/jgit/revwalk/filter/RevFilter.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
  jar/org/eclipse/jgit/revwalk/PlotLane.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
  jar/org/eclipse/jgit/revwalk/AuthorRevFilter.java
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  jar/org/eclipse/jgit/errors/CompoundException.java
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  jar/org/eclipse/jgit/revwalk/BlockObjQueue.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
  jar/org/eclipse/jgit/revwalk/RevCommitList.java
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  jar/org/eclipse/jgit/revwalk/errors/NoRemoteRepositoryException.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
  jar/org/eclipse/jgit/revwalk/filter/CommitterRevFilter.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
  jar/org/eclipse/jgit/revwalk/RevQueue.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
  jar/org/eclipse/jgit/revwalk/Generator.java
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  jar/org/eclipse/jgit/transport/AmazonS3.java
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  jar/org/eclipse/jgit/revwalk/EndGenerator.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
  jar/org/eclipse/jgit/revwalk/filter/MessageRevFilter.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
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jar/org/eclipse/jgit/util/GitDateFormatter.java

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*/opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/lib/ObjectIdSubclassMap.java
*/opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/revwalk/RevTree.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/internal/storage/dfs/DfsPackParser.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/internal/storage/file/LocalCachedPack.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/internal/storage/dfs/DfsRefRename.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/internal/storage/dfs/DfsConfig.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/util/BlockList.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
  jar/org/eclipse/jgit/lib/ObjectChecker.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-jar/org/eclipse/jgit/util/Holder.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-jar/org/eclipse/jgit/util/io/AutoLFOutputStream.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-jar/org/eclipse/jgit/attributes/Attributes.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/events/ConfigChangedListener.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/events/RefsChangedListener.java

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jar/org/eclipse/jgit/diff/SubsequenceComparator.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources.jar/org/eclipse/jgit/transport/UsernamePasswordCredentialsProvider.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources.jar/org/eclipse/jgit/diff/DiffConfig.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources.jar/org/eclipse/jgit/diff/SimilarityRenameDetector.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/internal/ketch/ReplicaConfig.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/internal/storage/file/ByteBufferWindow.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/internal/storage/file/PackFile.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/lib/Ref.java
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* @version 2.1, stripped to minimum feature set used by JGit.
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/submodule/SubmoduleWalk.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/api/SubmoduleSyncCommand.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org/eclipse-jgit-4.4-1.201607150455-r-sources.jar/org/eclipse/jgit/api/StashListCommand.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/internal/storage/file/RefDirectory.java

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/ /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/transport/NetRC.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-jar/org/eclipse/jgit/treewalk/AbstractTreeIterator.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-jar/org/eclipse/jgit/api/errors/CanceledException.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-jar/org/eclipse/jgit/api/errors/DetachedException.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/util/io/UnionInputStream.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/api/errors/JGitInternalException.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/api/GitCommand.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/api/errors/InvalidMergeHeadsException.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/lib/BranchConfig.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-jar/org/eclipse/jgit/transport/PackParser.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
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jar/org/eclipse/jgit/notes/NoteMapMerger.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/transport/AdvertiseRefsHook.java
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jar/org/eclipse/jgit/revwalk/StartGenerator.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-
jar/org/eclipse/jgit/revwalk/RevTag.java

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  */opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/util/io/NullOutputStream.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/hooks/PrePushHook.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/treewalk/filter/InterIndexDiffFilter.java
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  jar/org/eclipse/jgit/api/StashDropCommand.java
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/**
 * Fetch objects we don't have but that are reachable from advertised refs.
 * <p>
 * Only one call per connection is allowed. Subsequent calls will result in
 * {@link TransportException}.
 * </p>
 * <p>
 * Implementations are free to use network connections as necessary to
 * efficiently (for both client and server) transfer objects from the remote
 * repository into this repository. When possible implementations should
 * avoid replacing/overwriting/duplicating an object already available in
 * the local destination repository. Locally available objects and packs
 * should always be preferred over remotely available objects and packs.
 * {@link Transport#isFetchThin()} should be honored if applicable.
 * </p>
 *
 * @param monitor
 *            progress monitor to inform the end-user about the amount of
 *            work completed, or to indicate cancellation. Implementations
 *            should poll the monitor at regular intervals to look for
 *            cancellation requests from the user.
 * @param want
 *            one or more refs advertised by this connection that the caller
 *            wants to store locally.
 * @param have
 *            additional objects known to exist in the destination
 *            repository, especially if they aren't yet reachable by the ref
 *            database. Connections should take this set as an addition to
 *            what is reachable through all Refs, not in replace of it.
 * @throws TransportException
 *            objects could not be copied due to a network failure,
 *            protocol error, or error on remote side, or connection was
 *            already used for fetch.
 */

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/api/errors/InvalidTagNameException.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/api/errors/UnmergedPathsException.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/api/errors/NotMergedException.java
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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/revplot/PlotCommit.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources.jar/org/eclipse/jgit/transport/DaemonService.java

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* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/transport/BaseConnection.java
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 * A special exception thrown when [#link AutoLFInputStream] is told to
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* may be thrown at any stage during reading.
*
* @since 3.3
*/

Found in path(s):
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4-4-1-201607150455-r-sources-jar/org/eclipse/jgit/util/io/AutoLFInputStream.java

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  jar/org/eclipse/jgit/transport/PreReceiveHook.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-
  jar/org/eclipse/jgit/patch/FormatError.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-
  jar/org/eclipse/jgit/transport/ReceiveCommand.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-
  jar/org/eclipse/jgit/util/QuotedString.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-
  jar/org/eclipse/jgit/treewalk/NameConflictTreeWalk.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-
  jar/org/eclipse/jgit/patch/CombinedFileHeader.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-
  jar/org/eclipse/jgit/patch/CombinedHunkHeader.java
* /opt/cola/permits/1150250613_1627682056.2/0/org-eclipse-jgit-4.4.1-201607150455-r-sources-
  jar/org/eclipse/jgit/transport/PostReceiveHook.java

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* /opt/cola/permits/1121920053_1610435893.6/0/springfox-oas-3-0-0-sources-jar/springfox/documentation/oas/web/ForwardedHeaderExtractingRequest.java

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* /opt/cola/permits/1121920053_1610435893.6/0/springfox-oas-3-0-0-sources-jar/springfox/documentation/oas/web/ForwardedPrefixExtractor.java

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* /opt/cola/permits/1121920053_1610435893.60/springfox-oas-3-0-0-sources-jar/springfox/documentation/oas/configuration/OpenApiJacksonModule.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
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analysis/common/src/java/net/sf/snowball
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analysis/common/src/resources/org/apache/lucene/analysis/snowball
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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)
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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/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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and Edmond Nolan.

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**1.618 pycryptodomex 3.10.1**

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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
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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.

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.

6. As an exception to the Sections above, you may also combine or
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work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that 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.

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.

d) 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.

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

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

Jackson is a high-performance, Free/Open Source JSON processing library.
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The snowball stopword lists in
ar_analysis/common/src/resources/org/apache/lucene/analysis/snowball
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ro_analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
bg_analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
hi_analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
bn_analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
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de_analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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es_analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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pt_analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/ Stable',
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        ]
    }

    setup(**arguments)
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 */
/**
* {@link LobHandler} implementation for Oracle databases. Uses proprietary API
* to create <code>oracle.sql.BLOB</code> and <code>oracle.sql.CLOB</code>
* instances, as necessary when working with Oracle's JDBC driver.
* Note that this LobHandler requires Oracle JDBC driver 9i or higher!
* 
* <p>While most databases are able to work with {@link DefaultLobHandler},
* Oracle just accepts Blob/Clob instances created via its own proprietary
* BLOB/CLOB API, and additionally doesn't accept large streams for
* PreparedStatement's corresponding setter methods. Therefore, you need
* to use a strategy like this LobHandler implementation.
* 
* <p>Needs to work on a native JDBC Connection, to be able to cast it to
* <code>oracle.jdbc.OracleConnection</code>. If you pass in Connections from a
* connection pool (the usual case in a J2EE environment), you need to set an
* appropriate {@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor}
* to allow for automatic retrieval of the underlying native JDBC Connection.
* LobHandler and NativeJdbcExtractor are separate concerns, therefore they
* are represented by separate strategy interfaces.
* 
* <p>Coded via reflection to avoid dependencies on Oracle classes.
* Even reads in Oracle constants via reflection because of different Oracle
* drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
* As this LobHandler initializes Oracle classes on instantiation, do not define
* this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.
* 
* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see #setNativeJdbcExtractor
* @see oracle.sql.BLOB
* @see oracle.sql.CLOB
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 */
/**
 * Abstraction for handling large binary fields and large text fields in
 * specific databases, no matter if represented as simple types or Large OBjects.
 * Its main purpose is to isolate Oracle's peculiar handling of LOBs in
 * [OracleLobHandler]; most other databases should be able to work
 * with the provided [DefaultLobHandler].
 *
 * <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
 * LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
 * LobCreators are typically instantiated for each statement execution or for
 * each transaction; they are not thread-safe because they might track
 * allocated database resources in order to free them after execution.
 *
 * <p>Most databases/drivers should be able to work with [DefaultLobHandler],
 * which by default delegates to JDBC's direct accessor methods, avoiding the
 * java.sql.Blob and java.sql.Clob API completely.
 * [DefaultLobHandler] can also be configured to access LOBs using
 * PreparedStatement.setBlob/setClob (e.g. for PostgreSQL), through
 * setting the [DefaultLobHandler#setWrapAsLob "wrapAsLob"] property.
 *
 * <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
 * proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
 * PreparedStatement's corresponding setter methods. Therefore, you need to use
 * [OracleLobHandler] there, which uses Oracle's BLOB/CLOB API for both types
 * of access. The Oracle 10g JDBC driver should basically work with
 * [DefaultLobHandler] as well, with some limitations in terms of LOB sizes.
Of course, you need to declare different field types for each database.
In Oracle, any binary content needs to go into a BLOB, and all character content beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete portability, use a LobHandler for fields that might typically require LOBs on some database because of the field size (take Oracle’s numbers as a guideline).

Summarizing the recommended options (for actual LOB fields):

- JDBC 4.0 driver: {@link DefaultLobHandler} with <code>streamAsLob=true</code>.
- PostgreSQL: {@link DefaultLobHandler} with <code>wrapAsLob=true</code>.
- Oracle 9i/10g: [@link OracleLobHandler] with a connection-pool-specific LobHandler (setNativeJdbcExtractor NativeJdbcExtractor).
- For all other database drivers (and for non-LOB fields that might potentially turn into LOBs on some databases): a plain default LobHandler.

@since 23.12.2003
@see DefaultLobHandler
@see OracleLobHandler
@see java.sql.ResultSet#getBlob
@see java.sql.ResultSet#getClob
@see java.sql.ResultSet#getBytes
@see java.sql.ResultSet#getBinaryStream
@see java.sql.ResultSet#getString
@see java.sql.ResultSet#getAsciiStream
@see java.sql.ResultSet#getCharacterStream

*/

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  */
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
  */
/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never <code>null</code>)
  */

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* /opt/cola/permits/1136489748_1613774365.1.0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java
* /opt/cola/permits/1136489748_1613774365.1.0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/support/lob/SpringLobCreatorSynchronization.java
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 */
/**
 * Strategy interface for translating between @link SQLException SQLExceptions
 * and Spring's data access strategy-agnostic @link DataAccessException
 * hierarchy.
 *
 * <p>Implementations can be generic (for example, using
 * @link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/core/JdbcOperations.java
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* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java

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* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
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* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/datasource/AbstractDataSource.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
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* /opt/cola/permits/1136489748_1613774365.1/0/spring-jdbc-3-0-3-release-sources-2-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
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- Simplify error handling, avoiding the need for try/catch/finally blocks in application code.

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Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.

Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.

This package and related packages are discussed in Chapter 9 of Expert One-On-One J2EE Design and Development by Rod Johnson (Wrox, 2002).

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1.631 elasticsearch-x-content 7.4.0

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1.632 junit-jupiter-params 5.5.2

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1.633 wildfly-elytron-audit 1.10.3.Final

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* /opt/cola/permits/1150250830_1627681822.51/0/wildfly-elytron-audit-1-10-3-final-sources-jar/META-INF/maven/org.wildfly.security/wildfly-elytron-audit/pom.xml

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* /opt/cola/permits/1150250830_1627681822.51/0/wildfly-elytron-audit-1-10-3-final-sources-jar/org/wildfly/security/audit/AuditEndpoint.java
* /opt/cola/permits/1150250830_1627681822.51/0/wildfly-elytron-audit-1-10-3-final-sources-jar/org/wildfly/security/audit/PeriodicRotatingFileAuditEndpoint.java
* /opt/cola/permits/1150250830_1627681822.51/0/wildfly-elytron-audit-1-10-3-final-sources-jar/org/wildfly/security/audit/SyslogAuditEndpoint.java
* /opt/cola/permits/1150250830_1627681822.51/0/wildfly-elytron-audit-1-10-3-final-sources-jar/org/wildfly/security/audit/EventPriority.java
* /opt/cola/permits/1150250830_1627681822.51/0/wildfly-elytron-audit-1-10-3-final-sources-jar/org/wildfly/security/audit/SimpleSecurityEventFormatter.java
* /opt/cola/permits/1150250830_1627681822.51/0/wildfly-elytron-audit-1-10-3-final-sources-jar/org/wildfly/security/audit/SizeRotatingFileAuditEndpoint.java
* /opt/cola/permits/1150250830_1627681822.51/0/wildfly-elytron-audit-1-10-3-final-sources-jar/org/wildfly/security/audit/AuditLogger.java
* /opt/cola/permits/1150250830_1627681822.51/0/wildfly-elytron-audit-1-10-3-final-sources-jar/org/wildfly/security/audit/JsonSecurityEventFormatter.java

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1.634 javassist 3.24.0-GA

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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/code/NestMembersAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/Proxy.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/code/ BYTEcode/InstructionPrinter.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/Callback.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/runtime/Inner.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/util/proxy/DefineClassHelper.java
jar/javassist/tools/rmi/AppletServer.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/AnnotationsAttribute.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/web/Viewer.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist bytecode/annotation/MemberValue.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist bytecode/annotation/LongMemberValue.java

1.635 apiguardian-api 1.0.0
1.636 psutil 5.4.6

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1.638 activation-api 1.2.1

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1.646 joda-time 2.2

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  jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
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 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
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 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 *             the owner's class name.
 * @param access
 *             the method's access flags (see [@link Opcodes]).
 * @param name
 *             the method's name.
 * @param desc
 *             the method's descriptor (see [@link Type Type]).
 * @param mv
 *             the method visitor to which this adapter delegates calls. May
 *             be <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
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*/
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* Constructs a new [{@link ClassNode}], <i>Subclasses must not use this constructor</i>. Instead, they must use the [{@link #ClassNode(int)}] version.
* @throws IllegalStateException
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 */
/**
 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this

* constructor. Instead, they must use the
* [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
*
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * { @link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See { @link TypeReference}.
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 */
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the ‘start’ array.
* @param index
* the local variable’s index in each range. This array must have
* the same size as the ‘start’ array.
* @param desc
* the class descriptor of the annotation class.
*/

Found in path(s):
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/ModuleNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/util/ASMiifier.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/commons/SimpleRemapper.java

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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/JumpInsnNode.java
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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/ModuleRequireNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/ModuleExportNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/util/CheckModuleAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/ModuleOpenNode.java
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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/ModuleOpenNode.java
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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/AnnotationVisitor.java
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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/tree/ParameterNode.java
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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/util/ASMifiable.java

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*/

/**
 * Creates a new JSRInliner. Subclasses must not use this constructor. Instead, they must use the
 * [JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 *
 * @param mv the <code>MethodVisitor</code> to send the resulting inlined method code to (use <code>null</code> for none).
 * @param access the method's access flags (see <link Opcodes>). This parameter also indicates if the method is synthetic and/or deprecated.
 * @param name the method's name.
 * @param desc the method's descriptor (see <link Type>).
 * @param signature the method's signature. May be <tt>null</tt>.
 * @param exceptions the internal names of the method's exception classes (see <tt>getInternalName()</tt>). May be <tt>null</tt>.
 * @throws IllegalStateException If a subclass calls this constructor.
 */
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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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  jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/SAXModuleAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/SAXModuleAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/SAXModuleAdapter.java
* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-
  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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 */
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 * Constructs a new [ @link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ @link #Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/xml/ASMContentHandler.java
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* /opt/cola/permits/1150250962_1627682340.96/0/asm-6-0-beta-sources-jar/org/objectweb/asm/TypePath.java

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1.668 libxext 1.3.3-3.el7

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/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
*<p>Exposes the {@code MBeanServer} for bean references.</p>
*<p>This {@code FactoryBean} is a direct alternative to {@link MBeanServerFactoryBean},
*which uses standard JMX 1.2 API to access the platform's {@link MBeanServer}.
*<p>See the javadocs for WebSphere's
</a>
and

* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
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jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java

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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 */
* @author Stephane Nicoll
* @since 4.1
*/

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 */
* Indicates that a component is only eligible for registration when all
* [@linkplain #value specified conditions] match.
*
* &lt;p&gt; A &lt;em&gt;condition&lt;/em&gt; is any state that can be determined programmatically
* before the bean definition is due to be registered (see [@link Condition] for details).
*
* &lt;p&gt; The [@code @Conditional] annotation may be used in any of the following ways:
* &lt;ul&gt;
* &lt;li&gt; as a type-level annotation on any class directly or indirectly annotated with
* [@code @Component], including [@link Configuration @Configuration] classes&lt;/li&gt;
* &lt;li&gt; as a meta-annotation, for the purpose of composing custom stereotype
* annotations&lt;/li&gt;
* &lt;li&gt; as a method-level annotation on any [@link Bean @Bean] method&lt;/li&gt;
* &lt;/ul&gt;
*
* &lt;p&gt; If a [@code @Configuration] class is marked with [@code @Conditional],
* all of the [@code @Bean] methods, [@link Import @Import] annotations, and
* [@link ComponentScan @ComponentScan] annotations associated with that
* class will be subject to the conditions.
*
* &lt;p&gt; &lt;strong&gt;NOTE&lt;/strong&gt;: Inheritance of [@code @Conditional] annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* [@code @Conditional] itself is not declared as
* [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
* custom &lt;em&gt;composed annotation&lt;/em&gt; that is meta-annotated with
* [@code @Conditional] must not be declared as [@code @Inherited].
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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* /opt/cola/permits/1171047101_1622804420.87/0/spring-context-5-2-15-release-sources-
  jar/org/springframework/jmx/export/metadata/ManagedOperation.java

1.674 zlib 1.2.5

1.674.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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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).
*/

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1.682 antlr 2.7.6
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### 1.687 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.1.4, March 11th, 2002

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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 ftp://ds.internic.net/rfc/rfc1950.txt
   (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

   */
1.688 maven-model 2.0.6
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1.689 netty-transport-native-unix-common

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* /opt/cola/permits/1177956777_1625584671.66/0/netty-transport-native-unix-common-4-1-48-final-sources-5.jar/io/netty/channel/unix/UnixChannelUtil.java
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  jar/io/netty/handler/ssl/OpenSsl.java
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  jar/io/netty/handler/ssl/CipherSuiteFilter.java
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* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
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* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ss/SignatureAlgorithmConverter.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ss/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ss/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ss/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ss/ExtendedOpenSslSession.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ss/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ss/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ss/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ss/OpenSslKeyMaterial.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ss/OpenSslCachingKeyMaterialProvider.java

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* /opt/cola/permits/1110676040_160682976.07/0/netty-handler-4-1-34-final-sources-1-jar/io/netty/handler/flow/FlowControlHandler.java
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* /opt/cola/permits/1110676040_160682976.07/0/netty-handler-4-1-34-final-sources-1-jar/META-INF/maven/io.netty/netty-handler/pom.xml
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  jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
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  jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
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  jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/stream/FullStream.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/SslHandler.java
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Maps.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Collections.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/PojoPropertyBuilderFactory.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyDefinitions.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/field/FieldModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/configuration/ObjectMapperConfigured.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/configuration/ObjectMapperConfiguration.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelSpecificationProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/ParameterModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/ModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java
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   */opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
   jar/springfox/documentation/schema/property/CachingModelPropertiesProvider.java
   */opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
   jar/springfox/documentation/schema/property/bean/Accessors.java
   */opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
   jar/springfox/documentation/schema/property/bean/BeanModelProperty.java
   */opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
   jar/springfox/documentation/schema/property/field/FieldProvider.java
   */opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
   jar/springfox/documentation/schema/Annotations.java
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  jar/springfox/documentation/schema/JaxbPresentInClassPathCondition.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/XmlModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/PropertyDiscriminatorBasedInheritancePlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/JsonIgnorePropertiesModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/plugins/JacksonXmlPropertyPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/JacksonXmlModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/XmlPropertyPlugin.java

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* */
1.697 dom4j 2.1.1

1.698 undertow-core 1.4.0.Final

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 */
The returned array will be "safe" in that no references to it are maintained by this deque. (In other words, this method must allocate a new array). The caller is thus free to modify the returned array.

This method acts as bridge between array-based and collection-based APIs.

@returns an array containing all of the elements in this deque

*/

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* limitations under the License.
*/
/**
* Handler responsible for checking of confidentiality is required for the requested resource and if so rejecting the request
* and redirecting to a secure address.
* 
* @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
*/
/**
* Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
* Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual SSLSession.
* 
* @param exchange - The {link HttpServerExchange} for the request being processed.
* @return true if the request is 'sufficiently' confidential, false otherwise.
*/
/**
* Use the HttpServerExchange to identify if confidentiality is required.
* This method currently returns true for all requests, sub-classes can override this to provide a custom check.
* TODO: we should deprecate this and just use a predicate to decide to execute the handler instead
* 
* @param exchange - The {link HttpServerExchange} for the request being processed.
* @return true if the request requires confidentiality, false otherwise.
*/
/**
* All sub-classes are required to provide an implementation of this method, using the HttpServerExchange for the current
* request return the address to use for a redirect should confidentiality be required and the request not be confidential.
* 
* @param exchange - The {link HttpServerExchange} for the request being processed.
* @return The {link URI} to redirect to.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/security/handlers/AbstractConfidentialityHandler.java
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* limitations under the License.
*/
/**
 * An extension to [@link AbstractConfidentialityHandler] that uses the Host header from the incoming message
 * and specifies the confidential address by just switching the port.
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-
  jar/io/undertow/security/handlers/SinglePortConfidentialityHandler.java
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* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-
  jar/io/undertow/server/handlers/proxy/mod_cluster/Balancer.java
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* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/impl/AbstractSecurityContext.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/api/AuthenticationMechanismContext.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/handlers/AbstractSecurityContextAssociationHandler.java

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* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/client/http/HttpRequestConduit.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/ajp/AbstractAjpClientStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/encoding/ContentEncodingRepository.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/util/Cookies.java
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* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/client/http2/Http2ClearClientProvider.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/protocols/http2/Http2DataFrameParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/attribute/RemoteIIPAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/UndertowLogger.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/protocols/http2/Http2PushBackParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/ConcurrentDirectDeque.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/security/idm/GSSContextCredential.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/MultipartParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/attribute/RemoteHostAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/io/Receiver.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/GracefulShutdownHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/ByteRangeHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/websockets/client/WebSocketClientNegotiation.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/attribute/LocalPortAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/resource/Resource.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/protocols/ajp/AjpResponseParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/websockets/core/WebSocketHandshakeException.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/Methods.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/ConduitFactory.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/JettyALPNClientProvider.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/proxy/ProxyCallback.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/ConfiguredPushHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/proxy/HostTable.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/protocol/http/JDK8HackAlpnOpenListener.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/conduits/ReadTimeoutStreamSourceConduit.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/AllowedMethodsHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/ConduitWrapper.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/util/StatusCodes.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/impl/SingleSignOn.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/api/NotificationReceiver.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/extensions/ExtensionFunction.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/form/FormDataParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/CookieImpl.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/attribute/ResolvedPathAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/util/Attachable.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/util/Sender.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/client/http/HttpResponseParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/protocol/framed/AbstractFramedStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/protocol/http2/Http2GoAwayParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/protocol/api/NotificationReceiver.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/core/WebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/protocol/json/JsonResponseWriter.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/JSONResponseHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/form/FormDataParser.java
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* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/encoding/EncodingHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/protocol/ajp/AjpRequestParseState.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/attribute/queryStringAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/protocol/http/HttpReadListener.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/core/protocol/version13/WebSocket13Channel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/resource/DirectoryUtils.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/conduits/DebuggingStreamSourceConduit.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/client/http/ResponseParseState.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/spi/AsyncWebSocketHttpServerExchange.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/idm/ExternalCredential.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/session/SessionManagerStatistics.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/OriginHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/session/SessionIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/api/NonceManager.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/Http2FrameHeaderParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/core/BufferedBinaryMessage.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/session/SessionIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/Http2PrefaceStreamSinkChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/core/SendChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/session/SessionIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/Http2PrefaceStreamSinkChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/Http2FrameHeaderParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/core/BufferedBinaryMessage.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/session/SessionIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/Http2PrefaceStreamSinkChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/Http2FrameHeaderParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/util/HeaderValues.java
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* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/util/CanonicalPathUtils.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/ajp/AjpClientResponseStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/client/ContinueNotification.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/handlers/SecurityInitialHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/Http2GoAwayStreamSinkChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/conduits/ByteActivityCallback.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/attribute/RequestLineAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/core/protocol/version07/WebSocket07FrameSinkChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/attribute/IdentUsernameAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/Http2StreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/error/SimpleErrorPageHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/conduits/WriteTimeoutStreamSinkConduit.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/session/SessionListener.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/predicate/AndPredicate.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/SSLSessionInfo.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/error/SimpleErrorPageHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/conduits/WriteTimeoutStreamSinkConduit.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/connector/PooledByteBuffer.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/channels/DetachableStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/core/WebSocketFramePriority.java
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* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/client/JDK8HackALPNClientProvider.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/Http2StreamSinkChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/resource/FileResource.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/client/ClientStatistics.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/attribute/RequestPathAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/util/AbstractAttachable.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/client/ajp/AjpClientProvider.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/client/ajp/AjpClientConnection.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/api/AuthenticatedSessionManager.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/WebSocketConnectionCallback.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/predicate/PredicateBuilder.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/impl/AuthenticationInfoToken.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/Http2RstStreamSinkChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/HpackDecoder.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/protocol/framed/AbstractFramedChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/io/DefaultIoCallback.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/HPackHuffman.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/protocol/ajp/AjpServerConnection.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/LocalNameResolvingHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/core/WebSocketLogger.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/security/idm/DigestCredential.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/resource/ResourceManager.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/websockets/core/InvalidOpCodeException.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/protocol/framed/AbstractFramedChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/protocol/Http2Protocol.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/SameThreadExecutor.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/HeaderMap.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/protocol/http/AlpnOpenListener.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/attribute/QueryParameterAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/session/SecureRandomSessionIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/websockets/core/WebSocketException.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/protocols/http2/Http2RstStreamStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/conduits/AbstractFixedLengthStreamSinkConduit.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/conduits/FinishableStreamSinkConduit.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/predicate/EqualsPredicate.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/SetHeaderHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/websockets/core/CloseMessage.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/MetricsHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/attribute/ResponseCodeAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/client/ClientProvider.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/protocol/http/HttpRequestParser.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/QueryParameterUtils.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/client/PushCallback.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/HttpContinueReadHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/websockets/core/protocol/version07/UTF8Checker.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/websockets/core/WebSocketCallback.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/protocols/http2/AbstractHttp2StreamSinkChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/resource/ResourceChangeEvent.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/client/ClientRequest.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/PooledAdaptor.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/attribute/SslClientCertAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/FlexBase64.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/conduits/BytesReceivedStreamSourceConduit.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/encoding/AllowedContentEncodings.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/resource/URLResource.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/attribute/CompositeExchangeAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/accesslog/AccessLogHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/websockets/core/protocol/version07/Hybi07Handshake.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/ConnectionUtils.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/protocols/http2/Http2ProtocolUtils.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/IPAddressAccessControlHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/ImmediatePooled.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/encoding/ContentEncodingProvider.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/protocols/http2/Http2SettingsStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/attribute/ExchangeAttributeBuilder.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/PathHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/ImmediateConduitFactory.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/protocol/http2/Http2ReceiveListener.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/protocols/ssl/ALPNHackClientHelloExplorer.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/predicate/PathTemplatePredicate.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/util/AttachmentList.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/server/handlers/cache/CacheHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1-jar/io/undertow/client/ProxiedRequestAttachments.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/ajp/AjpClientFramePriority.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/ExchangeCompletionListener.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/client/ClientExchange.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/attribute/ResponseHeaderAttribute.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/sse/ServerSentEventConnection.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/handlers/DisallowedMethodsHandler.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/server/session/SessionConfig.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/protocols/http2/AbstractHttp2StreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1069030005_1594473157.98/0/undertow-core-1-4-0-final-sources-1.jar/io/undertow/predicate/TruePredicate.java

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*/
/**
* <p>
* Encodes and decodes to and from Base64 notation.
* </p>
* <p>
* </p>
* *
* Example:
* </p>
* *
* <code>String encoded = Base64.encode( myByteArray );</code> <br />
* <code>byte[] myByteArray = Base64.decode( encoded );</code>
* *
* <p>
* The <tt>options</tt> parameter, which appears in a few places, is used to pass several pieces of information to the
* encoder.
* In the "higher level" methods such as encodeBytes( bytes, options ) the options parameter can be used to indicate
* such things
* as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and
* Ordered
* dialects.
* </p>
* *
* <p>
* Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations
* should not add
* line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke
* lines
* by default.
* The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```java
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );
```

* to compress the data before encoding it and then making the output have newline characters.

* Also...

```java
String encoded = Base64.encodeBytes( crazyString.getBytes() );
```

* Change Log:

- **v2.3.7** - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.

- **v2.3.6** - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.

- **v2.3.5** - Fixed bug in `@link encodeFromfile` where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.

- **v2.3.4** - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a class loader when using the `@link decodeToObject(String, int, ClassLoader)` method.

- **v2.3.3** - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like `java.io.IOException` explicitly.

- **v2.3.2** - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win
when using
* the [@link #encodeBytesToBytes(byte[])] family of methods (and not using the gzip options which uses a
different mechanism
* with streams and stuff).</li>
* <li>v2.3.1 - Added [@link #encodeBytesToBytes(byte[], int, int, int)] and some similar helper methods to be
more efficient
* with memory by not returning a String but just a byte array.</li>
* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes
queued up and
* finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to
everyone
* else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null
values or
* something similar. Here are some changes that may affect you:
* <ul>
* <li><em>Does not break lines, by default.</em> This is to keep in compliance with <a
* <li><em>Throws exceptions instead of returning null values. </em> Because some operations (especially those
that may permit
* the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some
discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions rather than return null if ever
there's an
* error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been
done
* this way to begin with.</li>
* <li><em>Removed all references to System.out, System.err, and the like.</em> Shame on me. All I can say is
sorry they were
* ever there.</li>
* <li><em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed such as when passed
arrays are null or
* offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before
for people who
* were thorough in their own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files
(<&lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a
main() method to
* support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
* <ul>
* <li>The default is RFC3548 format.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name
friendly format as described in
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name
friendly format that preserves
* lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html
* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new
* Base64 dialects.

* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and
  * writing to and from files.
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code
  * now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are
  * cleaner. You'll probably have to change some method calls that you were making to support the new options format.
* v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added
  * the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not
  * completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.

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* with plenty of well-wishing instead! Please visit http://iharder.net/base64 periodically to check for updates or to contribute improvements.

@author Robert Harder
@version 2.3.7
1.699 netty-resolver 4.1.48.Final

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* /opt/cola/permits/1177956813_1625584640.81/0/netty-resolver-4.1.48-final-sources-3-
  jar/io/netty/resolver/SimpleNameResolver.java
* /opt/cola/permits/1177956813_1625584640.81/0/netty-resolver-4.1.48-final-sources-3-
  jar/io/netty/resolver/NoopAddressResolverGroup.java
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  jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1177956813_1625584640.81/0/netty-resolver-4.1.48-final-sources-3-
  jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/1177956813_1625584640.81/0/netty-resolver-4.1.48-final-sources-3-
  jar/io/netty/resolver/package-info.java
* /opt/cola/permits/1177956813_1625584640.81/0/netty-resolver-4.1.48-final-sources-3-
  jar/io/netty/resolver/NoopAddressResolver.java

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1.700 javax-ws-rs-api 2.0.1

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1.708 libpng 1.5.13-8.el7
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--------------------------------------------------------------------------------------------------

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/**
 * <p>
 * Creates a new WebUserDataPermission with the specified name and actions.
 * </p>
 * *
 * *
 * <p>
 * The name contains a URLPatternSpec that identifies the web resources to which the permissions applies. The syntax
 * of a URLPatternSpec is as follows:
 * *
 * <pre>
 * URLPatternList ::= URLPattern | URLPatternList colon URLPattern
 */

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A null URLPatternSpec is translated to the default URLPattern, "/", by the permission constructor. The empty string is an exact URLPattern, and may occur anywhere in a URLPatternSpec that an exact URLPattern may occur. The first URLPattern in a URLPatternSpec may be any of the pattern types, exact, path-prefix, extension, or default as defined in the Java Servlet Specification). When a URLPatternSpec includes a URLPatternList, the patterns of the URLPatternList identify the resources to which the permission does NOT apply and depend on the pattern type and value of the first pattern as follows:

- No pattern may exist in the URLPatternList that matches the first pattern.
- If the first pattern is a path-prefix pattern, only exact patterns matched by the first pattern and path-prefix patterns matched by, but different from, the first pattern may occur in the URLPatternList.
- If the first pattern is an extension pattern, only exact patterns that are matched by the first pattern and path-prefix patterns may occur in the URLPatternList.
- If the first pattern is the default pattern, "/", any pattern except the default pattern may occur in the URLPatternList.
- If the first pattern is an exact pattern a URLPatternList must not be present in the URLPatternSpec.

The actions parameter contains a comma separated list of HTTP methods that may be followed by a transportType separated from the HTTP method by a colon.

ExtensionMethod ::= any token as defined by RFC 2616
    (that is, 1*[any CHAR except CTLs or separators])

HTTPMethod ::= "Get" | "POST" | "PUT" | "DELETE" | "HEAD" |
    "OPTIONS" | "TRACE" | ExtensionMethod

HTTPMethodList ::= HTTPMethod | HTTPMethodList comma HTTPMethod

HTTPMethodExceptionList ::= exclamationPoint HTTPMethodList

HTTPMethodSpec ::= emptyString | HTTPMethodExceptionList |
    HTTPMethodList
transportType ::= "INTEGRAL" | "CONFIDENTIAL" | "NONE"

actions ::= null | HTTPMethodSpec |
          HTTPMethodSpec colon transportType

If duplicates occur in the HTTPMethodSpec they must be eliminated by the permission constructor.

An empty string HTTPMethodSpec is a shorthand for a List containing all the possible HTTP methods.

An actions string without a transportType is a shorthand for a actions string with the value "NONE" as its
TransportType.

A granted permission representing a transportType of "NONE", indicates that the associated resources may be
accessed using any connection type.

@param name
  - the URLPatternSpec that identifies the application specific web resources to which the permission
  pertains. All URLPatterns in the URLPatternSpec are relative to the context path of the deployed web
  application module, and the same URLPattern must not occur more than once in a URLPatternSpec. A
  null URLPatternSpec is translated to the default URLPattern, "/", by the permission constructor. All colons
  occurring within the URLPattern elements of the URLPatternSpec must be represented in escaped
  encoding
  as defined in RFC 2396.

@param actions
  - identifies the HTTP methods and transport type to which the permission pertains. If the value passed
  through this parameter is null or the empty string, then the permission is constructed with actions
  corresponding to all the possible HTTP methods and transportType "NONE".

Returns a canonical String representation of the actions of this WebUserDataPermission. The canonical form of
the
* actions of a WebUserDataPermission is described by the following syntax description.
* 
* <pre>
* ExtensionMethod ::= any token as defined by RFC 2616
* (that is, 1*[any CHAR except CTLs or separators])
* HTTPMethod ::= "GET" | "POST" | "PUT" | "DELETE" | "HEAD" |
* "OPTIONS" | "TRACE" | ExtensionMethod
* HTTPMethodList ::= HTTPMethod | HTTPMethodList comma HTTPMethod
* HTTPMethodExceptionList ::= exclamationPoint HTTPMethodList
* HTTPMethodSpec ::= emptyString | HTTPMethodExceptionList |
* HTTPMethodList
* transportType ::= "INTEGRAL" | "CONFIDENTIAL" | "NONE"
* actions ::= null | HTTPMethodList |
* HTTPMethodSpec colon transportType
* </pre>
* 
* </p>
* 
* <p>
* If the permission’s HTTP methods correspond to the entire HTTP method set and the permission’s transport
* type is “INTEGRAL” or “CONFIDENTIAL”, the HTTP methods shall be represented in the canonical form by
* an
* emptyString HTTPMethodSpec. If the permission’s HTTP methods correspond to the entire HTTP method set,
* and the
* permission’s transport type is not “INTEGRAL” or “CONFIDENTIAL”, the canonical actions value shall be the
* null
* value.
* </p>
* 
* </p>
* If the permission’s methods do not correspond to the entire HTTP method set, duplicates must be eliminated and
* the
* remaining elements must be ordered such that the predefined methods proceed the extension methods, and such
* that
* within each method classification the corresponding methods occur in ascending lexical order. The resulting
* (non-emptyString) HTTPMethodSpec must be included in the canonical form, and if the permission’s transport
* type is
* not “INTEGRAL” or “CONFIDENTIAL”, the canonical actions value must be exactly the resulting
* HTTPMethodSpec.
* </p>
* 
* @return a String containing the canonicalized actions of this WebUserDataPermission (or the null value).
*/

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* /opt/cola/permits/1114653550_1607543371.23/0/jboss-jacc-api-1-5-spec-1-0-0-final-sources-1-
* jar/javax/security/jacc/WebUserDataPermission.java
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* /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java

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  * /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
  * /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
  * /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-jar/org/springframework/aop/support/AnnotationAwareAspectJAutoProxyCreator.java
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  jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-
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* /opt/ws_local/PERMITS_SQL/1069262507_1594595098.67/0/spring-aop-5-1-9-release-sources-jar/org/springframework/aop/AspectJAutoProxyBeanDefinitionParser.java
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* /opt/cola/permits/1150250646_1627682070.15/0/wildfly-elytron-http-form-1-10-3-final-sources-jar/org/wildfly/security/http/form/FormAuthenticationMechanism.java

1.714 jackson-dataformat-smile 2.10.1

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jar/org/springframework/classify/util/AnnotationMethodResolver.java
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 * $Rev: 280974 $
 * $Date: 2005-09-15 01:06:59 +0100 (Thu, 15 Sep 2005) $
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  jar/org/apache/commons/validator/Form.java
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/*
* $Id: Flags.java 280974 2005-09-15 00:06:59Z niallp $
* $Rev: 280974 $
* $Date: 2005-09-15 01:06:59 +0100 (Thu, 15 Sep 2005) $
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  jar/org/apache/commons/validator/util/Flags.java
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* $Id: ISBNValidator.java 280974 2005-09-15 00:06:59Z niallp $
* $Rev: 280974 $
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/*
 * $Id: EmailValidator.java 280974 2005-09-15 00:06:59Z niallp $
 * $Rev: 280974 $
 * $Date: 2005-09-15 01:06:59 +0100 (Thu, 15 Sep 2005) $
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* /opt/cola/permits/1138553888_1614290842.05/0/commons-validator-1-2-0-sources-1-jar/org/apache/commons/validator/EmailValidator.java
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/*
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    jar/org/apache/commons/validator/Validator.java

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/*
 * $Id: ValidatorAction.java 280974 2005-09-15 00:06:59Z niallp $
 * $Rev: 280974 $
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    jar/org/apache/commons/validator/ValidatorResult.java

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/*
 * $Id: ValidatorResult.java 289168 2005-09-15 06:40:47Z niallp $
 * $Rev: 289168 $
 * $Date: 2005-09-15 07:40:47 +0100 (Thu, 15 Sep 2005) $
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  jar/org/apache/commons/validator/ValidatorAction.java
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/*
* $Id: Arg.java 280974 2005-09-15 00:06:59Z niallp $
* $Rev: 280974 $
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  jar/org/apache/commons/validator/Arg.java
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/*
* $Id: GenericTypeValidator.java 293556 2005-10-04 07:07:32Z niallp $
* $Rev: 293556 $
* $Date: 2005-10-04 08:07:32 +0100 (Tue, 04 Oct 2005) $
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jar/org/apache/commons/validator/util/ValidatorUtils.java
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/**
 * $Id: Field.java 280974 2005-09-15 00:06:59Z niallp $
 * $Rev: 280974 $
 * $Date: 2005-09-15 01:06:59 +0100 (Thu, 15 Sep 2005) $
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jar/org/apache/commons/validator/Field.java
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/**
 * $Id: Msg.java 280974 2005-09-15 00:06:59Z niallp $
 * $Rev: 280974 $
 * $Date: 2005-09-15 01:06:59 +0100 (Thu, 15 Sep 2005) $

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  jar/org/apache/commons/validator/Msg.java
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/**
 * $Id: ValidatorException.java 155434 2005-02-26 13:16:41Z dirkv $
 * $Rev: 155434 $
 * $Date: 2005-02-26 13:16:41 +0000 (Sat, 26 Feb 2005) $
 * *
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  jar/org/apache/commons/validator/ValidatorException.java
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/*
* $Id: CreditCardValidator.java 280974 2005-09-15 00:06:59Z niallp $
* $Rev: 280974 $
* $Date: 2005-09-15 01:06:59 +0100 (Thu, 15 Sep 2005) $
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* $Id: ValidatorResults.java 280974 2005-09-15 00:06:59Z niallp $
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 * $Id: ValidatorResources.java 329836 2005-10-31 15:12:50Z niallp $
 * $Rev: 329836 $
 * $Date: 2005-10-31 15:12:50 +0000 (Mon, 31 Oct 2005) $
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 * $Id: DateValidator.java 280974 2005-09-15 00:06:59Z niallp $
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  jar/org/apache/commons/validator/DateValidator.java
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/*
* $Id: FormSetFactory.java 293498 2005-10-04 02:59:43Z niallp $
* $Rev: 293498 $
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  jar/org/apache/commons/validator/FormSetFactory.java
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/*
* $Id: UrlValidator.java 327148 2005-10-21 10:50:20Z niallp $
* $Rev: 327148 $
* $Date: 2005-10-21 11:50:20 +0100 (Fri, 21 Oct 2005) $
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  jar/org/apache/commons/validator/UrlValidator.java

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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/OperationBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ApiKey.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/BasicAuth.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ResolvedMethodParameter.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/Parameter.java
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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ObjectVendorExtension.java
* /opt/cola/permit1939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/ModelPropertyBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/PathSelectors.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/AuthorizationCodeGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/schema/WildcardType.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/AuthorizationScope.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/DocumentationBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/BuilderDefaults.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/AuthorizationScopeBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ApiInfo.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/AuthorizationCodeGrantBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/CredentialsGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/service/ApiListingReference.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/OperationNameGenerator.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-jar/springfox/documentation/builders/Parameters.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/annotations/ApiIgnore.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/Tags.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/builders/ApiInfoBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/AllowableRangeValues.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/Tag.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/VendorExtension.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/TokenRequestEndpoint.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/ClientCredentialsGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/AllowableListValues.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/ResourceOwnerPasswordCredentialsGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/ApiListing.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/ResponseMessage.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/Documentation.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/Operation.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/StringVendorExtension.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/ApiDescription.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/builders/ImplicitGrantBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/GrantType.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/PathProvider.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/builders/OAuthBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/builders/ApiDescriptionBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/schema/Xml.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/TokenEndpoint.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/builders/LoginEndpointBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/annotations/Incubating.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/MediaTypes.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/schema/AlternateTypeRules.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/ImplicitGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/Contact.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/schema/ModelRef.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/schema/Model.java
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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/schema/ AlternateTypeRule.java
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  jar/springfox/documentation/schema/Example.java
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  jar/springfox/documentation/builders/ParameterMerger.java
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  jar/springfox/documentation/builders/ParameterBuilder.java
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  jar/springfox/documentation/service/ListVendorExtension.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
  jar/springfox/documentation/builders/AlternateTypePropertyBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
  jar/springfox/documentation/builders/AlternateTypeBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
  jar/springfox/documentation/schema/AlternateTypeRuleConvention.java

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  jar/springfox/documentation/service/Header.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3-
  jar/springfox/documentation/RequestHandlerKey.java
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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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

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

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

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

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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.

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that 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.

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.

d) 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.

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

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

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

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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.

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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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1.733 websping-app-interface 2.5-SNAPSHOT
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sasandra
--------

An original theme for xfwm4 - Formerly known as "just4fun"
Created Feb. 2005 by Olivier Fourdan <fourdan@xfce.org>
Modified sept./oct. 2005 by Olivier Fourdan <fourdan@xfce.org>
Modified apr. 2006 by Olivier Fourdan <fourdan@xfce.org>
Modified jun. 2006 by Olivier Fourdan <fourdan@xfce.org>

Theme released under GNU GPL license.

Found in path(s):
* /opt/cola/permits/1106218629_1607112754.63/0/webswing-app-interface-2-5-sources-jar/themes/Sassandra/xfwm4/README

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* /opt/cola/permits/1106218629_1607112754.63/0/webswing-app-interface-2-5-sources-jar/org/webswing/theme/Xpm.java

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Therapy
-------

An original theme for xfwm4.
Created Dec. 18th 2004 by Olivier Fourdan <fourdan@xfce.org>
Modified Mar. 13rd 2005 by Olivier Fourdan <fourdan@xfce.org>
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* /opt/cola/permits/1106218629_1607112754.63/0/webswing-app-interface-2-5-sources-jar/themes/Therapy/xfwm4/README

1.734 stevedore 3.3.0
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1.736 jandex 2.0.2.Final

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* /opt/ws_local/PERMITS_SQL/1039321937_1593865514.98/0/jandex-2-0-2-final-sources-1-jar/org/jboss/jandex/AnnotationTargetFilterCollection.java
* /opt/ws_local/PERMITS_SQL/1039321937_1593865514.98/0/jandex-2-0-2-final-sources-1-
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jar/org/jboss/jandex/PositionBasedTypeTarget.java
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jar/org/jboss/jandex/ThrowsTypeTarget.java
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jar/org/jboss/jandex/IndexReaderImpl.java
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jar/org/jboss/jandex/ClassExtendsTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1039321937_1593865514.98/0/jandex-2-0-2-final-sources-1-
jar/org/jboss/jandex/TypeParameterTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1039321937_1593865514.98/0/jandex-2-0-2-final-sources-1-
jar/org/jboss/jandex/PositionBasedTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1039321937_1593865514.98/0/jandex-2-0-2-final-sources-1-
jar/org/jboss/jandex/EmptyTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1039321937_1593865514.98/0/jandex-2-0-2-final-sources-1-
jar/org/jboss/jandex/VoidType.java
* /opt/ws_local/PERMITS_SQL/1039321937_1593865514.98/0/jandex-2-0-2-final-sources-1-
jar/org/jboss/jandex/ParameterizedType.java
* /opt/ws_local/PERMITS_SQL/1039321937_1593865514.98/0/jandex-2-0-2-final-sources-1-
jar/org/jboss/jandex/MethodReturnTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1039321937_1593865514.98/0/jandex-2-0-2-final-sources-1-
jar/org/jboss/jandex/IndexWriterV2.java
* /opt/ws_local/PERMITS_SQL/1039321937_1593865514.98/0/jandex-2-0-2-final-sources-1-
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1.740 junit 3.8.2

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1.753 mockito-all 1.10.19

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1.756 x-net v0.0.0-20200927032502-5d4f70055728

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jar/io/jsonwebtoken/impl/lang/UnavailableImplementationException.java
* /opt/cola/permits/1158095152_1619705637.97/0/jjwt-impl-0-11-1-sources-1-
jar/io/jsonwebtoken/impl/lang/UnmutableJwtParser.java
* /opt/cola/permits/1158095152_1619705637.97/0/jjwt-impl-0-11-1-sources-1-
jar/io/jsonwebtoken/impl/lang/Services.java
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1.766 snake-yaml 1.26

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* /opt/cola/permits/1150250898_1627682131.2/0/doxia-site-renderer-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/siterenderer/SiteRenderingContext.java
* /opt/cola/permits/1150250898_1627682131.2/0/doxia-site-renderer-1-0-alpha-7-sources-1-jar/org/apache/maven/doxia/siterenderer/sink/SiteRendererSink.java
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1.768 alsa 1.1.8 1.el7
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1.769 strace 4.24-6.el7
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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/parameter/ParameterTypeReader.java
* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/parameter/DefaultOperationReader.java
* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/operation/DefaultTagsProvider.java
* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/operation/OperationModelsProvider.java
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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/parameter/DefaultOperationReader.java
* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/parameter/ParameterTypeReader.java

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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/operation/DefaultOperationReader.java
* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/scanners/ApiDescriptionLookup.java
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* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-jar/springfox/documentation/spring/web/readers/parameter/ParameterTypeReader.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/asm/AnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/asm/ClassTooLargeException.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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1.796 hibernate-envers 5.4.12.Final

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  jar/springfox/documentation/swagger/readers/operation/OperationImplicitParameterReader.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
  jar/springfox/documentation/swagger/readers/parameter/SwaggerExpandedParameterBuilder.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
  jar/springfox/documentation/swagger/readers/parameter/ApiParamParameterBuilder.java

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jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-
jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-
jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-
jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
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  jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-
  jar/org/springframework/jdbc/init/ScriptStatementFailedException.java

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  jar/org/springframework/jdbc/core/RowCallbackHandler.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-
  jar/org/springframework/jdbc/support/lob/LobHandler.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-
  jar/org/springframework/jdbc/core/PreparedStatementSetter.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-
  jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-
  jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-
  jar/org/springframework/jdbc/lookup/DataSourceLookup.java

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* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/support/lob/ParameterDisposer.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/support/lob/PassThroughClob.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/support/DefaultLobHandler.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/support/DefaultLobHandler.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/support/DefaultLobHandler.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/support/DefaultLobHandler.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/support/DefaultLobHandler.java
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 */

/**
 * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
 */

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  */opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/object/SqlOperation.java
  */opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/SqlTypeValue.java
  */opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/object/UpdatableSqlQuery.java
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  */opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
  */opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/InvalidResultSetAccessException.java
  */opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
  */opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java
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* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1.jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1.jar/org/springframework/jdbc/datasource/DataSourceFactory.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1.jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1.jar/org/springframework/jdbc/datasource/DatabaseMetaDataCallback.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1.jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
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* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/metadata/GenericTableMetadataProvider.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/SqlReturnType.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java

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/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </ul>
 *
 * This package and related packages are discussed in Chapter 9 of
 * Expert One-On-One J2EE Design and Development</a>
 * by Rod Johnson (Wrox, 2002).
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* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
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* /opt/cola/permits/1135892490_1613626874.06/0/spring-jdbc-5-2-10-release-sources-1-jar/org/springframework/jdbc/datasource/XMLDriverDataSource.java

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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con a JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @return a Map of input parameters, keyed by name (never { @code null})
* @throws SQLException if an SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
*/

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 */
/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * [link locateSource detected] during response rendering. Users can either specify
 * a specific entry in the model via the [link setSourceKey sourceKey] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See [link getSourceTypes() here]
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [link setOutputProperties output properties]
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-
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* A contract for inspecting and potentially modifying request data values such
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*
Implementations may use this contract for example as part of a solution to provide data integrity, confidentiality, protection against cross-site request forgery (CSRF), and others or for other tasks such as automatically adding a hidden field to all forms and URLs.

View technologies that support this contract can obtain an instance to delegate to via `RequestContext#getRequestDataValueProcessor()`.

@since 3.1

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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-jar/org/springframework/web/servlet/tags/form/ButtonTag.java
* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-jar/org/springframework/web/servlet/tags/form/TextareaTag.java
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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistry.java
* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-jar/org/springframework/web/servlet/config/annotation/PathMatchConfigurer.java
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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-jar/org/springframework/web/servlet/support/RequestContextUtils.java
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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-jar/org/springframework/web/servlet/view/script/RenderingContext.java

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1.824 plexus-classworlds 1.1
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/*
 $Id: UberJarRealmClassLoader.java 112 2004-11-03 17:37:23Z mhw $

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/*

$Id: ClassWorldException.java 78 2004-07-01 13:59:13Z jvanzy$l

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$Id: DuplicateRealmException.java 78 2004-07-01 13:59:13Z jvanzyl $

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/*
$Id: Handler.java 115 2005-07-03 15:23:59Z jvanzy1$

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jar/org/codehaus/classworlds/uberjar/protocol/jar/Handler.java
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/*
$Id: JarUrlConnection.java 78 2004-07-01 13:59:13Z jvanzyl $

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* /opt/cola/permits/1136703427_1613865017.18/0/classworlds-1-1-sources-4-jar/org/codehaus/classworlds/uberjar/protocol/jar/JarUrlConnection.java
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$Id: DefaultClassRealm.java 94 2004-08-09 22:00:16Z jvantyl $

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$Id: ConfigurationException.java 78 2004-07-01 13:59:13Z jvanzy1 $

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* /opt/cola/permits/1136703427_1613865017.18/0/classworlds-1-1-sources-4-jar/org/codehaus/classworlds/uberjar/boot/Bootstrapper.java

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/*

$Id: Entry.java 89 2004-07-18 00:40:00Z dandiep $

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jar/org/codehaus/classworlds/Entry.java
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jar/org/codehaus/classworlds/NoSuchRealmException.java
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/*
Sid: Configurator.java 108 2004-11-02 18:41:08Z mhw $

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(1)

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(2)

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of the code." Steven Brandt also agreed with the use of this class.

(3)

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com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)
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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
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        "Programming Language :: Python :: 3.96",
        "Programming Language :: Python :: 3.97",
        "Programming Language :: Python :: 3.98",
        "Programming Language :: Python :: 3.99",
    ]
)
"Programming Language :: Python :: 3.6",
"Programming Language :: Python :: 3.7",
"Programming Language :: Python :: 3.8",
"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
]
packages=find_packages("src"),
package_dir={": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2.11.2-1-tar-gz/Jinja2-2.11.2/setup.py

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Jinja is a fast, expressive, extensible templateng engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.
Installing
----------

Install and update using `pip`:

```
$ pip install -U Jinja2
```


In A Nutshell
-------------

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
  {% for user in users %}
  <li><a href="{{ user.url }}">{{ user.username }}</a></li>
  {% endfor %}
</ul>
{% endblock %}
```

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifiers:
- Development Status :: 5 - Production/Stable
- Environment :: Web Environment
- Intended Audience :: Developers
- License :: OSI Approved :: BSD License
- Operating System :: OS Independent
- Programming Language :: Python
- Programming Language :: Python :: 2
- Programming Language :: Python :: 2.7
1.829 postgresql-jdbc 42.2.16

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* /opt/cola/permits/1167153008_1621579313.8/0/netty-transport-native-unix-common-4-1-65-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1167153008_1621579313.8/0/netty-transport-native-unix-common-4-1-65-final-sources-jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1167153008_1621579313.8/0/netty-transport-native-unix-common-4-1-65-final-sources-jar/netty_unix_errors.h
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* /opt/cola/permits/1167153008_1621579313.8/0/netty-transport-native-unix-common-4-1-65-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
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  jar/io/netty/channel/unix/IovArray.java
* /opt/cola/permits/1167153008_1621579313.8/0/netty-transport-native-unicommon-4-1-65-final-sources-
  jar/io/netty/channel/unix/UnixChannelOption.java
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* /opt/cola/permits/1150251306_1627682092.71/0/wildfly-elytron-security-manager-1-10-3-final-sources-jar/org/wildfly/security/manager/WildFlySecurityManagerPermission.java
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* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.62/0/spring-ws-core-3-0-8-release-sources-1-jar/org/springframework/ws/client/WebServiceClientException.java
* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.62/0/spring-ws-core-3-0-8-release-sources-1-jar/org/springframework/ws/soap/axiom/AxiomSoap12Body.java
* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.62/0/spring-ws-core-3-0-8-release-sources-1-jar/org/springframework/ws/transport/http/MessageDispatcherServlet.java
* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.62/0/spring-ws-core-3-0-8-release-sources-1-jar/org/springframework/ws/wsdll/server/provider/DefaultConcretePartProvider.java
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* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.620/spring-ws-core-3-0-8-release-sources-1.jar/org/springframework/ws/pox/dom/DomPoxMessage.java
* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.620/spring-ws-core-3-0-8-release-sources-1.jar/org/springframework/ws/client/support/WebServiceAccessor.java
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* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.620/spring-ws-core-3-0-8-release-sources-1.jar/org/springframework/ws/server/endpoint/interceptor/AbstractValidatingInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.62/0/spring-ws-core-3-0-8-release-sources-1-jar/org/springframework/ws/soap/addressing/version/AddressingVersion.java
* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.62/0/spring-ws-core-3-0-8-release-sources-1-jar/org/springframework/ws/soap/addressing/messagelid/MessageidStrategy.java
* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.62/0/spring-ws-core-3-0-8-release-sources-1-jar/org/springframework/ws/server/endpoint/annotation/XPathParam.java
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* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.62/0/spring-ws-core-3-0-8-release-sources-1-jar/org/springframework/ws/wsdl/wsdl11/provider/MessagesProvider.java
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* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.62/0/spring-ws-core-3-0-8-release-sources-1-jar/org/springframework/ws/client/support/interceptor/ClientInterceptor.java
* /opt/ws_local/PERMITS_SQL/1069363505_1594647702.62/0/spring-ws-core-3-0-8-release-sources-1-jar/org/springframework/ws/client/support/destination/DestinationProvider.java
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1.843 pycparser 2.19
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1.844 fdisk 2.34.0
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1.853 zstd-jni 1.4.0 1

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* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/Schema.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/headers/Header.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/callbacks/Callback.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/MapSchema.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/links/Link.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/PathItem.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/Content.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/responses/ApiResponse.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/0/swagger-models-2-1-2-sources
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jar/io/swagger/v3/oas/models/media/ByteArraySchema.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/parameters/PathParameter.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/Encoding.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/examples/Example.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/ObjectSchema.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/BinarySchema.java
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jar/io/swagger/v3/oas/models/media/EncodingProperty.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/info/Info.java
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jar/io/swagger/v3/oas/models/info/License.java
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jar/io/swagger/v3/oas/models/parameters/CookieParameter.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/parameters/RequestBody.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
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* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
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* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/ArraySchema.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/DateTimeSchema.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/EmailSchema.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
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* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/Paths.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/BooleanSchema.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/RequestBody.java
* /opt/ws_local/PERMITS_SQL/1069435250_1594665087.01/o/swagger-models-2-1-2-sources-
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Julian Seward, Cambridge, UK.
jseward@acm.org

bzip2/libbz2 version 1.0.2 of 30 December 2001

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 libbz2.dll test program.
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 usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
 */

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Found in path(s):
* /opt/cola/permits/1150251038_1627682072.85/0/maven-artifact-manager-2-0-4-sources-1-
  jar/org/apache/maven/artifact/repository/metadata/GroupRepositoryMetadata.java

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* /opt/cola/permits/1150251038_1627682072.85/0/maven-artifact-manager-2-0-4-sources-1-
  jar/org/apache/maven/artifact/transform/LatestArtifactTransformation.java
* /opt/cola/permits/1150251038_1627682072.85/0/maven-artifact-manager-2-0-4-sources-1-
  jar/org/apache/maven/artifact/deployer/DefaultArtifactDeployer.java
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  jar/org/apache/maven/artifact/resolver/WarningResolutionListener.java
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  jar/org/apache/maven/artifact/transform/DefaultArtifactTransformationManager.java
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  jar/org/apache/maven/artifact/repository/metadata/AbstractRepositoryMetadata.java
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* /opt/cola/permits/1150251038_1627682072.85/0/maven-artifact-manager-2-0-4-sources-1-
  jar/org/apache/maven/artifact/repository/metadata/ArtifactRepositoryMetadata.java
* /opt/cola/permits/1150251038_1627682072.85/0/maven-artifact-manager-2-0-4-sources-1-
  jar/org/apache/maven/artifact/installer/DefaultArtifactInstaller.java
* /opt/cola/permits/1150251038_1627682072.85/0/maven-artifact-manager-2-0-4-sources-1-
  jar/org/apache/maven/artifact/manager/DefaultWagonManager.java
* /opt/cola/permits/1150251038_1627682072.85/0/maven-artifact-manager-2-0-4-sources-1-
  jar/org/apache/maven/artifact/repository/metadata/DefaultRepositoryMetadataManager.java
* /opt/cola/permits/1150251038_1627682072.85/0/maven-artifact-manager-2-0-4-sources-1-
  jar/org/apache/maven/artifact/installer/DefaultArtifactInstaller.java
1.868 geronimojmssspec 1.1.1

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1.869 maven-project 2.0.9

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its [@link ChannelPipeline].
 *
 * <h3>Sub-types</h3>
 * <p>
 * [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes:
 * <ul>
 * <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
 */
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events, </li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>
* <h3>The context object</h3>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* </p>
* <h3>State management</h3>
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
*     private boolean loggedIn;
*     
*     @Override
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else if (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*                 
* }
Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

// Create a new handler instance per channel.
// See \{@link ChannelInitializer\#initChannel(Channel)\}.
public class DataServerInitializer extends \{@link ChannelInitializer\} \{[@code @Override]
    public void initChannel(@link Channel channel) {
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }
\}

Using \{@link AttributeKey\}s

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use \{@link AttributeKey\}s which is provided by \{@link ChannelHandlerContext\}:

public interface Message {
    // your methods here
}

[@code @Sharable]
public class DataServerHandler extends \{@link SimpleChannelInboundHandler\} \{Message\} \{
    private final \{@link AttributeKey\} &lt;@link Boolean\> &gt; auth =
        \{@link AttributeKey\#valueOf(String) AttributeKey.valueOf("auth")\};
    \}

public void channelRead(@link ChannelHandlerContext ctx, Message message) {
    \{@link Attribute\} &lt;@link Boolean\> attr = ctx.attr(auth);
    if (message instanceof LoginMessage) {
        authenticate((LoginMessage) o);
        &lt;b&gt;attr.set(true)&lt;/b&gt;;
    } else (message instanceof GetDataMessage) {
        if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {
            ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
        } else {
            fail();
        }
    }
}
Now that the state of the handler is attached to the \{@link ChannelHandlerContext\}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends \{@link ChannelInitializer\}\{@link Channel\}\{ @Override
    public void initChannel(\{@link Channel\} channel) {
        channel.pipeline().addLast("handler", \{b\}SHARED\{/b\});
    }
```

### The \{@code @Sharable\} annotation

In the example above which used an \{@link AttributeKey\}, you might have noticed the \{@code @Sharable\} annotation.

If a \{@link ChannelHandler\} is annotated with the \{@code @Sharable\} annotation, it means you can create an instance of the handler just once and add it to one or more \{@link ChannelPipeline\}s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like \<a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

### Additional resources worth reading

Please refer to the \{@link ChannelHandler\}, and \{@link ChannelPipeline\} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
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*/opt/cola/permits/1167153035_1621579319.87/0/netty-transport-4-1-65-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
*/opt/cola/permits/1167153035_1621579319.87/0/netty-transport-4-1-65-final-sources-jar/io/netty/bootstrap/ChannelFactory.java

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* /opt/cola/permits/1167153035_1621579319.87/0/netty-transport-4-1-65-final-sources-
  jar/io/netty/channel/socket/nio/NioChannelOption.java
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1.881 maven-model-builder 3.0

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1.883 ehcache-rest-agent 2.10.9.2

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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Oracle

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

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

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

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OW2

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

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Apache

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

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MortBay

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

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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

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1.886 unzip 6.0-21.el7_9.0atomix1

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete
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The drop of the reduce method should only affect some test archives,
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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1.887 aop-alliance 2.2.0

1.888 wildfly-core-security 2.2.0.Final

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1.889 maven-archiver 2.5

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jsptaglibrary_2_1.xsd
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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/jsp_2_0.xsd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/jsp_2_1.xsd
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: 1.5.0_13 (Sun Microsystems Inc.)
Built-By: janb
Build-Jdk: 1.5.0_13
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-RequiredExecutionEnvironment: J2SE-1.4
Specification-Version: 2.5
Bnd-LastModified: 1229016831353
Export-Package: javax.servlet.http;uses="javax.servlet";version="2.5" ,javax.servlet;version="2.5",javax.servlet.resources;version="2.5",javax.servlet.jsp.resources;version="2.5"
Bundle-Version: 2.5
Ignore-Package: javax.servlet.http,javax.servlet,javax.servlet.resources,javax.servlet.jsp.resources
Bundle-Name: Servlet Specification API
Bundle-Description: Servlet Specification API
Bundle-DocURL: http://www.mortbay.com
Originally-Created-By: 1.5.0_13 (Sun Microsystems Inc.)
Bundle-Vendor: Mort Bay Consulting
Bundle-ManifestVersion: 2
Bundle-SymbolicName: org.mortbay.jetty.servlet-api
Tool: Bnd-0.0.238
Implementation-Vendor: JCP

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<xsd:enumeration value="CONFIDENTIAL"/>

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INTEGRAL or CONFIDENTIAL flag will indicate that the use
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http://www.sourceforge.net/projects/jmatio

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boilerpipe

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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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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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Janino - An embedded Java[TM] compiler

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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]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

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" />
----
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]

```xml
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
```

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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 specified");
        p.role = readValueAsSet(m, "role");
        if (PermissionNameProvider.Name.get(name) != null) {
            p.wellknownName = PermissionNameProvider.Name.get(name);
            HashSet<String> disAllowed = new HashSet<>(knownKeys);
            disAllowed.remove("role");
            disAllowed.remove(NAME);
            disAllowed.remove("collection");
            p.method = disAllowed;
        }
        return p;
    }
}
```java
    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:")) ?
                    Pattern.compile(String.valueOf(it.substring("REGEX:".length())))
                    .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;
                });
            }
        }
    }

    return p;

    /**
     * This checks for the defaults available other rules for the keys
     */
```
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;
}

/**
 * read a key value as a set. if the value is a single string ,
 * return a singleton set
 *
 * @param m   the map from which to lookup
 * @param key the key with which to do lookup
 */
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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<span class="icon-bar"></span>

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</nav>

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<nav class="navbar navbar-default navbar-fixed-top">

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<div class="navbar-header">

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<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

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1.908 aggs-matrix-stats-client 6.8.5

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<xsl:stylesheet version="1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="product"/>
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />
  <xsl:template match="/">
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        <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
      </head>
      <body>
        <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
        <!-- Read matching templates -->
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            <th>Package Artifact</th>
            <th>Package Version</th>
            <th>Remote Licenses</th>
            <th>Local Licenses</th>
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ASM: a very small and fast Java bytecode manipulation framework

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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

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

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

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

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# spdx-license-ids

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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `string`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
````
```
### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

````javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
````

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Minizlib was created by Isaac Z. Schlueter.
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Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 8975
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'openssl/crypto/x509/x509_r2x.c',
'openssl/crypto/x509/x509_req.c',

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'openssl/crypto/x509v3/v3_pku.c',
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'./crypto',
'./crypto/include/internal',
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}

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    `openssl/ssl/d1_lib.c`,
    `openssl/ssl/d1_msg.c`,
    `openssl/ssl/d1_srtp.c`,
    `openssl/ssl/methods.c`,
    `openssl/ssl/packet.c`,
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'openssl/crypto/asn1/asn_mime.c',
'openssl/crypto/asn1/asn_moid.c',
'openssl/crypto/asn1/asn_mstbl.c',
'openssl/crypto/asn1/asn_pack.c',
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'openssl/crypto/asn1/d2i_pu.c',
'openssl/crypto/asn1/evp_asn1.c',
'openssl/crypto/asn1/f_int.c',
'openssl/crypto/asn1/f_string.c',
'openssl/crypto/asn1/i2d_pr.c',
'openssl/crypto/asn1/i2d_pu.c',
'openssl/crypto/asn1/n_pkey.c',
'openssl/crypto/asn1/nsseq.c',
'openssl/crypto/asn1/p5_pbe.c',
'openssl/crypto/asn1/p5_pbev2.c',
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Open Source Used in Cisco Nexus Dashboard Fabric Controller 12.0(1) 9004
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'openssl/crypto/ec/curves.c',
'openssl/crypto/ec/curve448/table.c',
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'openssl/crypto/evp/encode.c',
'openssl/crypto/evp/evp_cnf.c',
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Open Source Used in Cisco Nexus Dashboard Fabric Controller 12.0(1) 9008
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openssl/crypto/x509v3/pcy_data.c,
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openssl_sources_BSD-x86_64: [ 
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  'RC4_ASM',
  'MD5_ASM',
  'AESNI_ASM',
  'VPAES_ASM',
  'GHASH_ASM',
  'ECP_NISTZ256_ASM',
  'X25519_ASM',
]
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validate-npm-package-license
=================================

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

---
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      `license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      "UNLICENSED", or ' +
      "SEE LICENSE IN <filename>"'
    ,
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    `license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    "UNLICENSED", or ' +
    "SEE LICENSE IN <filename>"'
  ]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);```

---

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)  9024
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(valid('SEE LICENSE IN LICENSE.txt'),
{ validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
});
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
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1.934 maven-toolchain 3.0-alpha-2

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/**
* Encodes and decodes to and from Base64 notation. <p/>
* <p> Change Log: </p>
* <ul>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and
* methods. Added some convenience methods for reading and writing to and from
* files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the
* code fails on systems with other encodings (like EBCDIC).</li>
* <li>v2.0.1 -
* Fixed an error when decoding a single byte, that is, when the encoded data
* was a single byte.</li> <li>v2.0 - I got rid of methods that used booleans
* to set options. Now everything is more consolidated and cleaner. The code
* now detects when data that's being decoded is gzip-compressed and will
* decompress it automatically. Generally things are cleaner. You'll probably
* have to change some method calls that you were making to support the new
* options format (\(\text{int}\)s that you “OR” together).</li> <li>v1.5.1 -
* Fixed bug when decompressing and decoding to a byte[] using \(\text{decode(}
* String s, boolean gzipCompressed )\)/. Added the ability to "suspend"
* encoding in the Output Stream so you can turn on and off the encoding if you
* need to embed base64 data in an otherwise "normal" stream (like an XML
* file).</li> <li>v1.5 - Output stream passes on flush() command but doesn't do
* anything itself. This helps when using GZIP streams. Added the ability to
* GZip-compress objects before encoding them.</li> <li>v1.4 - Added helper
* methods to read/write files.</li> <li>v1.3.6 - Fixed OutputStream.flush() so
* that 'position' is reset.</li> <li>v1.3.5 - Added flag to turn on and off
* line breaks. Fixed bug in input stream where last buffer being read, if not
* completely full, was not returned.</li> <li>v1.3.4 - Fixed when "improperly
* padded stream" error was thrown at the wrong time.</li> <li>v1.3.3 - Fixed
* I/O streams which were totally messed up.</li> <p> I am placing
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* 
* @author Robert Harder
* @author rob@iharder.net
* @since 4.2
* @deprecated Not currently used internally by Infinispan; will be removed in ver. 10. Other users are advised to
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were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
\texttt{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
\texttt{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/fi/FinnishLightStemmer.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
- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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.

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WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database.

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1.940 jackson-dataformat-yaml 2.11.4

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1.941 maven-shared-utils 3.2.0

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1.943 spring-boot-configuration-processor

2.2.6.RELEASE

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1.946 jetty-webapp 9.3.9.v20160517

1.947 jest-common 5.3.4

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1.948 netty-codec 4.1.53.Final

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jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java

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 * 
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jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java

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* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
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jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
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*/
/**
* A decoder that splits the received [ @link ByteBuf]s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* [ @link LengthFieldBasedFrameDecoder] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* *
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>
* *
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* [ @link ByteBuf#readableBytes()], you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* </pre>
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)       AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>

* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)                      AFTER DECODE (14 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lenAAAthLength = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------------------------------------+----------------------------------------+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive lengthAdjustment so that the decoder counts the extra header into the frame length calculation.

```
lengthFieldOffset   = 0
lengthFieldLength   = 3
<b>lengthAdjustment</b>   = <b>2</b> (= the length of Header 1)
initialBytesToStrip = 0
```

BEFORE DECODE (17 bytes)                     AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.

The prepended header affects the lengthFieldOffset and the extra header affects the lengthAdjustment. We also specified a non-zero initialBytesToStrip to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify initialBytesToSkip.

```
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
<b>lengthAdjustment</b>   = <b>1</b> (= the length of HDR2)
<b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
```

BEFORE DECODE (16 bytes)                     AFTER DECODE (13 bytes)
* +----------------+----------------+----------------+      +----------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+----------------+----------------+      +----------+----------------+
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.

The prepended header affects the lengthFieldOffset and the extra header affects the lengthAdjustment. We also specified a non-zero initialBytesToStrip to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify initialBytesToSkip.

```
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
(b)lengthAdjustment   = (b)1 (= the length of HDR2)
(initialBytesToStrip) = (b)3 (= the length of HDR1 + LEN)
```

BEFORE DECODE (16 bytes)                     AFTER DECODE (13 bytes)
* +----------------+----------------+----------------+      +----------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+----------------+----------------+      +----------+----------------+
```
Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

```
* lengthFieldOffset  =  1
* lengthFieldLength  =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>*
```

@see LengthFieldPrepender

1.949 ply 3.10-1.ph2

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Introduction

==========
PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

    import ply.lex as lex
    import ply.yacc as yacc

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:
import lex
import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
========= More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
=================================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py
#
# # A simple calculator with variables.
#

tokens = (
    'NAME', 'NUMBER',
    'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS',
    'LPAREN', 'RPAREN',
)

t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*'
t_DIVIDE  = r'\/'
t_EQUALS  = r'='
t_LPAREN  = r'\('
t_RPAREN  = r')'  
t_NAME    = r'\[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters

def t_ignore(t):
    return t
```

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count('
')

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                   | expression MINUS expression
                   | expression TIMES expression
                   | expression DIVIDE expression'''

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]
def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name " %s" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at " %s" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
        except EOFError:
            break
        yacc.parse(s)

Bug Reports and Patches

My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
github page at https://github.com/dabeaz/ply to submit issues and pull
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email to dave@dabeaz.com.

-- Dave

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1.950 plexus-container-default 1.0-alpha-9
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1.953 jackson 2.10.5

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1.954 maven-clean-plugin 3.1.0

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jar/com/vmware/vim25/NetIpStackInfoDefaultRouter.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/FtIssuesOnHostHostSelectionType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VFlashModuleNotSupported.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/StorageDrsPodConfigInfoBehavior.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DvpgRestoreEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VsanHostHealthState.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostDiskPartitionSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostInAuditModeEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DrsRecommendationReasonCode.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostPciPassthruInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/MigrationFault.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/PermisionUpdatedEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostPciPassthruInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/MigrationFault.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostVmfsSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ArrayOfTypeTag.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VirtualCdromRemoteAtapiBackingInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VirtualCdromIsoBackingInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostLicensableResourceInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostInternetScsiHbaDigestProperties.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ProfilePolicyMetadata.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostSnmpConfigSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ArrayOfTypeSelectionSet.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ProfilePolicyMetadata.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VirtualMachineMemoryReservationSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VAppIPAssignmentInfoIpAllocationPolicy.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ClockSkew.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/InvalidBmcRole.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ClockSkew.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DvsHostBackInSyncEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ArrayOfTypeClusterRuleInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/IncompatibleForRecordReplay.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VirtualSIOControllerOption.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DrsRuleComplianceEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostTpmEventDetails.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ArrayOfHostFeatureMask.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VmShutdownOnIsolationEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DvsDropNetworkRuleAction.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/StateAlarmExpression.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DistributedVirtualSwitchManagerHostArrayFilter.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ReplicationVmProgressInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ArrayOfOvfNetworkInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VirtualDeviceConfigSpecOperation.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VirtualHardwareOption.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/EVCAdmissionFailedHostSoftwareForMode.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostSystemIdentificationInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DatastoreRenamedOnHostEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ClusterDasData.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VmRelayoutUpToDateEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ExtendedFault.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostDiagnosticPartitionCreateOption.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/NetIpConfigInfoIpAddress.java

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*/

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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VMwareDvsIPv6xCapability.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/GuestRegValueExpandStringSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VsanUpgradeSystemAutoClaimEnabledOnHostsIssue.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/GuestMappedAliases.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/HostVvolVolumeSpecification.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VsanUpgradeSystemNetworkPartitionIssue.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VsanUpgradeSystemUpgradeHistoryItem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VmGuestOSCrashedEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/ServiceLocatorCredential.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VsanUpgradeSystemV2ObjectsPresentDuringDowngradeIssue.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/HostListSummaryGatewaySummary.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/HostInternetScsiHbaIPv6Properties.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/FaultToleranceMetaSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VimVasaProviderInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VsanHostVsanDiskInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VimVasaProviderStatePerArray.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/IoFilterInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/HostLowLevelProvisioningManagerFileDeleteResult.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
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jar/com/vmware/vim25/VirtualMachineCreateChildSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanHostFaultDomainInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachinePciSharedGpuPassthroughInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanUpgradeSystemUpgradeStatus.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VasaProviderContainerSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanUpgradeSystemWrongEsxVersionIssue.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanUpgradeSystemHostsDisconnectedIssue.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanUpgradeSystemPreflightCheckResult.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanUpgradeSystemUpgradeHistoryDiskGroupOp.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/GuestAuthAliasInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostVvolVolume.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VmVnicPoolReservationViolationClearEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualPCIPassthroughVmiopBackingInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HbrDiskMigrationAction.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/PlacementRankResult.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/PlacementRankSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/GuestRegValueSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/GuestRegValueDataSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/GuestRegValueQwordSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostPlacedVirtualNicIdentifier.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/ServiceLocatorNamePassword.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostFaultToleranceManagerComponentHealthInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostProtocolEndpoint.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostOpaqueSwitchPhysicalNicZone.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/GuestRegValueNameSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostStorageSystemDiskLocatorLedResult.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VsanUpgradeSystemMissingHostsInClusterIssue.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VsanUpgradeSystemUpgradeHistoryPreflightFail.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostNasVolumeUserInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/HostNetworkResourceRuntime.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/FaultToleranceVMConfigSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VimVasaProvider.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/StorageDrsPlacementRankVmSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VmVnicPoolReservationViolationRaiseEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VirtualMachineForkConfigInfo.java

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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VirtualMachineConfigSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VirtualMachineConfigInfo.java

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jar/com/vmware/vim25/mo/StorageResourceManager.java
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* @since 6.0
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Found in path(s):
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineFileLayoutExFileInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineVMCIDevice.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VMwareIpfixConfig.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineDatastoreInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineRuntimeInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/DatastoreInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualVideoCardOption.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineVideoCard.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualDisk.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineBootOptions.java

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Found in path(s):
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/ws/ClientCreator.java
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Found in path(s):
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/ClusterVmComponentProtectionSettingsStorageVmReaction.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/BatchResultResult.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/DistributedVirtualSwitchNetworkResourceControlVersion.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/CannotEnableVmcpForClusterReason.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/ClusterVmComponentProtectionSettingsVmReactionOnAPDCleared.java
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  jar/com/vmware/vim25/ws/SoapAction.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mo/GuestFileManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mo/HostCacheConfigurationManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mo/IscsiManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mox/VirtualMachineDeviceManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mo/HostEsxAgentHostManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mo/GuestProcessManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mo/StoragePod.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mo/GuestOperationsManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mo/GuestAuthManager.java

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/**
 * The returned XML data is in the following format:
 * <pre>
 * {@code
 * <?xml version="1.0" encoding="UTF-8" ?>
 * <!--
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 * -->
 * <definitions targetNamespace="urn:vim25Service"
 * xmlns="http://schemas.xmlsoap.org/wsdl/
 * xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/
 * xmlns:interface="urn:vim25"
 * >
 * <import location="vim.wsdl" namespace="urn:vim25" />
 * <service name="VimService">
 * <port binding="interface:VimBinding" name="VimPort">
 * <soap:address location="https://localhost/sdk/vimService" />
 * </port>
 * </service>
 * </definitions>
 * }
 * </pre>
 * *
 * Utility class for checking the version of VISDK the server supports.
 *
 * * @author Steve JIN (sjin@vmware.com)
 */

Found in path(s):
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/util/VerUtil.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ManagedObject.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ManagedObjectView.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostNetworkSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ProfileManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ServiceInstance.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/EventManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/EventManager.java
jar/com/vmware/vim/cf/ManagedObjectWatcher.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ResourcePlanningManager.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ClusterProfileManager.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostProfile.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ViewManager.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/EventHistoryCollector.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/TaskManager.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/util/MorUtil.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim/cf/CacheInstance.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/View.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostLocalAccountManager.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/InventoryView.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostPatchManager.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ScheduledTask.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostServiceSystem.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/util/PropertyCollectorUtil.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostFirewallSystem.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/OvfManager.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/PropertyCollector.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ContainerView.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostSnmpSystem.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/VirtualMachine.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ListView.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostDateTimeSystem.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostDatastoreSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/LicenseManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostVirtualNicManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/Util/CommandLineParser.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostMemorySystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HttpNfcLease.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostDiagnosticSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/DeepCopier.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/Folder.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/licenseAssignmentManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/AlarmManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ServerConnection.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/VirtualMachineCompatibilityChecker.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ExtensibleManagedObject.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/localizationManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/DiagnosticManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostHealthStatusSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/Profile.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/VirtualDiskManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ClusterProfile.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostAutoStartManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/OptionSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ClusterComputeResource.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/FileManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostBootDeviceSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/Network.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostImageConfigManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/EnvironmentBrowser.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/VirtualApp.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/TaskHistoryCollector.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/Task.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/Datastore.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/OptionManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/Alarm.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostStorageSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HistoryCollector.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ResourcePool.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/CustomizationSpecManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostFirmwareSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostPciPassthruSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/PerformanceManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vm/cf/ManagedObjectCache.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ScheduledTaskManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostVMotionSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ProfileComplianceManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ManagedEntity.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ComputeResource.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/VirtualMachineProvisioningChecker.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/VirtualMachineRelocateSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/HostConnectInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/HostNasVolumeSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/DVSNetworkResourceManagementCapability.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/ClusterComputeResourceSummary.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/ClusterRuleInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/ClusterDasVmSettings.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/VMwareDVSFeatureCapability.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/HostActiveDirectoryInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/HostProfileManagerConfigTaskList.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/StorageIORMInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/StorageDrsSpaceLoadBalanceConfig.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/HostListSummary.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/ClusterRecommendation.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/StorageIORMConfigSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/ClusterDasVmSettings.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/VMwareDVSFeatureCapability.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/HostActiveDirectoryInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources.jar/com/vmware/vim25/HostActiveDirectorySpec.java
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jar/com/vmware/vim25/ws/XmlGen.java
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jar/com/vmware/vim25/FileManagerFileType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/VirtualMachineSnapshot.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/AuthorizationManager.java

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jar/com/vmware/vim25/ClusterIoFilterInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DvsVmVnicResourcePoolConfigSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/FaultToleranceDiskSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DrsSoftRuleViolationEvent.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ClusterEVCManagerEVCState.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DvsHostInfrastructureTrafficResource.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DVSvmVnicNetworkResourcePool.java
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jar/com/vmware/vim25/ClusterUsageSummary.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostAccessManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/GuestWindowsRegistryManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/OverheadMemoryManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostCertificateManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/VRPResourceManager.java

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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/CannotComputeFTCompatibleHosts.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/CannotEnableVmcpForCluster.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/CannotDisableDrsOnClusterManagedByVDC.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/FilterInUse.java
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jar/com/vmware/vim25/mo/IpPoolManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostProfileManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/DistributedVirtualPortgroup.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/DistributedVirtualSwitch.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/SessionManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/DistributedVirtualSwitchManager.java

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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/MultiWriterNotSupported.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanIncompatibleDiskMapping.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/InaccessibleFTMetadataDatastore.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/StorageDrsHmsMoveInProgress.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/NotSupportedHostForVmcp.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/ReplicationVmInProgressFaultActivity.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/IncompatibleHostForVmReplicationIncompatibleReason.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/GuestRegKeyWowSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineBootOptionsNetworkBootProtocolType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostFileSystemVolumeFileSystemType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostOpaqueSwitchOpaqueSwitchState.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/PlacementAffinityRuleRuleScope.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostProfileManagerTaskListRequirement.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/StorageDrsSpaceLoadBalanceConfigSpaceThresholdMode.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/IoFilterOperation.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostNasVolumeSecurityType.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostHasComponentFailureHostComponentType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostLowLevelProvisioningManagerFileType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostActiveDirectoryAuthenticationCertificateDigest.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/PlacementSpecPlacementType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineForkConfigInfoChildType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/QuiesceMode.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualDiskDeltaDiskFormatVariant.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VMwareDvsMulticastFilteringMode.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineVMCIDeviceDirection.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostLockdownMode.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostAccessMode.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualDiskSharing.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostInternetScsiHbaIscsiIpv6AddressAddressConfigurationType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostProtocolEndpointPEType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineVMCIDeviceAction.java
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* /opt/cola/permits/1150251085_1627682067.46/0/wildfly-elytron-sasl-gs2-1-10-3-final-sources-
  jar/org/wildfly/security/sasl/gs2/Gs2Util.java
* /opt/cola/permits/1150251085_1627682067.46/0/wildfly-elytron-sasl-gs2-1-10-3-final-sources-
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* /opt/cola/permits/1150251085_1627682067.46/0/wildfly-elytron-sasl-gs2-1-10-3-final-sources-
  jar/org/wildfly/security/sasl/gs2/Gs2SaslClientFactory.java
* /opt/cola/permits/1150251085_1627682067.46/0/wildfly-elytron-sasl-gs2-1-10-3-final-sources-
  jar/org/wildfly/security/sasl/gs2/Gs2SaslServer.java
* /opt/cola/permits/1150251085_1627682067.46/0/wildfly-elytron-sasl-gs2-1-10-3-final-sources-
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1.959 netty-transport-native-epoll 4.1.65.Final
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* /opt/cola/permits/1167153016_1621579325.94/0/netty-transport-native-epoll-4-1-65-final-sources-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1167153016_1621579325.94/0/netty-transport-native-epoll-4-1-65-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
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  jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1167153016_1621579325.94/0/netty-transport-native-epoll-4-1-65-final-sources-
  jar/io/netty/channel/epoll/EpollEventLoop.java
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  jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1167153016_1621579325.94/0/netty-transport-native-epoll-4-1-65-final-sources-
  jar/io/netty/channel/epoll/AbstractEpollChannel.java
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  jar/io/netty/channel/epoll/EpollTcplnfo.java
* /opt/cola/permits/1167153016_1621579325.94/0/netty-transport-native-epoll-4-1-65-final-sources-
  jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
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 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
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/**
 * Set the {@code TCP_QUICKACK} option on the socket.
 * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a> for more details.
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jar/io/netty/resolver/InetAddressResolver.java
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jar/io/netty/resolver/AbstractAddressResolver.java

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Found in path(s):
* /opt/cola/permits/1111556675_1606933695.39/0/netty-resolver-4-1-22-final-sources-
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Found in path(s):
* /opt/cola/permits/1111566675_1606933695.39/0/netty-resolver-4-1-22-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

1.961 ehcache 5.4.31.Final

1.961.1 Available under license :

# The main CI of Hibernate ORM is https://ci.hibernate.org/job/hibernate-orm-6.0-h2-main/.
# However, Hibernate ORM builds run on GitHub actions regularly
# to check that it still works and can be used in GitHub forks.
# See https://docs.github.com/en/free-pro-team@latest/actions
# for more information about GitHub actions.

name: Hibernate ORM build

on:
  push:
    branches:
      - '5.4'
  pull_request:
    branches:
      - '5.4'

jobs:
  build:
    name: Java 8
    runs-on: ubuntu-latest
    # We want to know the test results of all matrix entries
    continue-on-error: true
    strategy:
      fail-fast: false
matrix:
# When GitHub Actions supports it: https://github.com/actions/toolkit/issues/399
# We will use the experimental flag as indicator whether a failure should cause a workflow failure
include:
- rdbms: h2
  experimental: false
# - rdbms: derby
#   experimental: true
# - rdbms: mariadb
#   experimental: true
- rdbms: postgresql
  experimental: true
# - rdbms: oracle
#   experimental: true
# - rdbms: db2
#   experimental: true
# - rdbms: mssql
#   experimental: true

steps:
- uses: actions/checkout@v2
- name: Reclaim Disk Space
  run: .github/ci-prerequisites.sh
- name: Set up Java 8
  uses: actions/setup-java@v1
  with:
    java-version: 1.8
- name: Get year/month for cache key
  id: get-date
  run: |
    echo "::set-output name=yearmonth::$(/bin/date -u "%Y-%m")"
  shell: bash
- name: Cache Maven local repository
  uses: actions/cache@v2
  id: cache-maven
  with:
    path: |
      ~/.m2/repository
      ~/.gradle/caches/
      ~/.gradle/wrapper/
    # refresh cache every month to avoid unlimited growth
    key: maven-localrepo-$(
      steps.get-date.outputs.yearmonth
    )}
- name: Run build script
  env:
    RDBMS: $(
      matrix.rdbms
    )
  run: ./ci/build-github.sh
  shell: bash
- name: Upload test reports (if Gradle failed)
  uses: actions/upload-artifact@v2
if: failure()
with:
  name: test-reports-java8-${{ matrix.rdbms }}
  path: |
    */target/reports/tests/
    */target/reports/checkstyle/
  - name: Omit produced artifacts from build cache
    run: ./ci/before-cache.sh
build11:
  name: Java 11
  runs-on: ubuntu-latest
  # We want to know the test results of all matrix entries
  continue-on-error: true
  steps:
  - uses: actions/checkout@v2
  - name: Set up Java 11
    uses: actions/setup-java@v1
    with:
      java-version: 11
  - name: Get year/month for cache key
    id: get-date
    run: |
      echo '::set-output name=yearmonth::$(/bin/date -u '+%Y-%m')''
    shell: bash
  - name: Cache Maven local repository
    uses: actions/cache@v2
    id: cache-maven
    with:
      path: |
        ~/.m2/repository
        ~/.gradle/caches/
        ~/.gradle/wrapper/
      # refresh cache every month to avoid unlimited growth
      key: maven-localrepo-$(steps.get-date.outputs.yearmonth)
  - name: Run build script
    run: ./ci/build-github.sh
    shell: bash
  - name: Upload test reports (if Gradle failed)
    uses: actions/upload-artifact@v2
    if: failure()
    with:
      name: test-reports-java11
      path: |
        */target/reports/tests/
        */target/reports/checkstyle/
      - name: Omit produced artifacts from build cache
        run: ./ci/before-cache.sh
This file is part of Hibernate Spatial, an extension to the hibernate ORM solution for spatial (geographic) data.

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1.965 hsqldb-hsqldb 2.3.0

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1.967 shadow-utils 4.6-8.el7_9.0atomix1

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  jar/org/springframework/web/socket/client/standard/WebSocketContainerFactoryBean.java
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  jar/org/springframework/web/socket/config/WebSocketNamespaceHandler.java
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* /opt/cola/permits/1150250173_1627682335.01/0/spring-websocket-5-2-5-release-sources-1-jar/org/springframework/web/socket/adapter/standard/ConvertingEncoderDecoderSupport.java

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* /opt/cola/permits/1150250173_1627682335.01/0/spring-websocket-5-2-5-release-sources-1-jar/org/springframework/web/socket/server/RequestUpgradeStrategy.java
* /opt/cola/permits/1150250173_1627682335.01/0/spring-websocket-5-2-5-release-sources-1-jar/org/springframework/web/socket/server/standard/SpringConfigurator.java

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MySQL Connector/J 8.0

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

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

The UnixCrypt.java code implements the one way cryptography used by
1.999 wildfly-elytron-auth-server 1.10.3.Final
1.999.1 Available under license:

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* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/MechanismInformation.java
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* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/MechanismConfigurationSelector.java
* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/PermissionManager.java
* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/cache/RealmIdentityCache.java
* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/authz/PermissionMapper.java
* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/MechanismConfigurationSelector.java
* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/MechanismConfigurationSelector.java
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* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/callback/ExtendedCallback.java
* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/RealmMapper.java
* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/NameRewriter.java
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* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources.jar/org/wildfly/security/auth/server/event/SyslogAuditEvent.java
* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources.jar/org/wildfly/security/auth/server/event/Rfc5424SyslogEvent.java
* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources.jar/org/wildfly/security/auth/callback/EvidenceDecodePrincipalCallback.java
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* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources.jar/org/wildfly/security/auth/server/RealmInfo.java
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*/
/**
* <p>Returns a {@link PermissionVerifier} with all the permissions associated with the given information.
* 
* <p>Once returned, client code can use the [@link PermissionVerifier#implies(Permission)] to check if a given
permission is granted or not
* to the given principal. Implementors must make sure that the returned collection is immutable.
* 
* @param permissionMappable the object to which permissions can be mapped (must not be [@code null])
* @param roles a set of effective roles after all role mapping was applied by security domain (may be [@code null])
* @return a permission verifier (not [@code null])
*/

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* /opt/cola/permits/1150250576_1627682060.40/wildfly-elytron-auth-server-1-10-3-final-sources-
jar/org/wildfly/security/auth/callback/FastUnsupportedCallbackException.java
* /opt/cola/permits/1150250576_1627682060.40/wildfly-elytron-auth-server-1-10-3-final-sources-
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* /opt/cola/permits/1150250576_1627682060.40/wildfly-elytron-auth-server-1-10-3-final-sources-
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* /opt/cola/permits/1150250576_1627682060.40/wildfly-elytron-auth-server-1-10-3-final-sources-
jar/org/wildfly/security/auth/callback/AuthenticationCompleteCallback.java
* /opt/cola/permits/1150250576_1627682060.40/wildfly-elytron-auth-server-1-10-3-final-sources-
jar/org/wildfly/security/auth/callback/SocketAddressQueryCallbackHandler.java
* /opt/cola/permits/1150250576_1627682060.40/wildfly-elytron-auth-server-1-10-3-final-sources-
jar/org/wildfly/security/auth/server/_private/ElytronMessages.java
* /opt/cola/permits/1150250576_1627682060.40/wildfly-elytron-auth-server-1-10-3-final-sources-
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* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/Scoped.java
* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/FlexibleIdentityAssociation.java
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* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/ssl/TLSListenerEndpointChannelBinding.java

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* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/event/RealmAbandonedAuthenticationEvent.java
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* /opt/cola/permits/1150250576_1627682060.4/0/wildfly-elytron-auth-server-1-10-3-final-sources-jar/org/wildfly/security/auth/server/event/RealmIdentityAuthorizationEvent.java
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1.1008 base-passwd 3.5.47

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analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
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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/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
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.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

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which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

1.1018 undertow-core 2.0.28.Final

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 */
* Returns an array containing all of the elements in this deque, in
* proper sequence (from first to last element).
*<p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
*<p>This method acts as bridge between array-based and collection-based
* APIs.
*<p>@return an array containing all of the elements in this deque
*/
and specifies the
* confidential address by just switching the port.
*
* @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
*/

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* /opt/cola/permits/1150250421_1627682120.15/0/undertow-core-2-0-28-final-sources-
ar/jar/io/undertow/security/handlers/SinglePortConfidentialityHandler.java
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* /opt/cola/permits/1150250421_1627682120.15/0/undertow-core-2-0-28-final-sources-jar/io/undertow/server/handlers/proxy/RouteIteratorFactory.java
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#
io.undertow.protocols.ssl.SNIAlpnEngineManager
io.undertow.protocols.alpn.DefaultAlpnEngineManager

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encoding to and from Base64 notation.

* <p>

Homepage: &lt;a href="http://iharder.net/base64"&gt;http://iharder.net/base64&lt;/a&gt;.

* </p>

* Example:

* </p>

* </p>

* <code>String encoded = Base64.encode( myByteArray );</code> &lt;br /&gt;
* &lt;code&gt;byte[] myByteArray = Base64.decode( encoded );&lt;/code&gt;

* 

* The &lt;tt&gt;options&lt;/tt&gt; parameter, which appears in a few places, is used to pass several pieces of information to the encoder.

* In the "higher level" methods such as encodeBytes( bytes, options ) the options parameter can be used to indicate such things

* as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and
Ordered
* dialects.

* </p>
*
*
* </p>
* 
* Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations should not add
* line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines
* by default.
* </p>
*
* 
* The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:
* </p>
*
* <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>
* </p>
* to compress the data before encoding it and then making the output have newline characters.
* </p>
*
* Also...
* </p>
*
* Change Log:
* </p>
* 
* <ul>
* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base
64 character
* but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential
for better
* handling) of other bad input characters. You should now get an IOException if you try decoding something that has
bad
* characters in it./li>
* <li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the
buffer was
* not properly shrunk and contained an extra (null) byte that made it into the string./li>
* <li>v2.3.5 - Fixed bug in [ @link #encodeFromFile] where estimated buffer size was wrong for files of size 31,
34, and 37
* bytes./li>
* <li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the
Base64 encoding
* (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped
streams. Also
* added experimental support for specifying a class loader when using the
* [decodeToObject(String, int, ClassLoader)] method.</li>
* *v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its
* CharEncoders and so
* forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException
* explicitly
* inline.</li>
* *v2.3.2 - Reduced memory footprint! Finally refined the ”guessing” of how big the final encoded data will be
* so that the
* code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using
* the [encodeBytesToBytes(byte[])] family of methods (and not using the gzip options which uses a
* different mechanism
* with streams and stuff).</li>
* *v2.3.1 - Added [ encodeBytesToBytes(byte[], int, int, int)] and some similar helper methods to be
* more efficient
* with memory by not returning a String but just a byte array.</li>
* *v2.3 - Strong>This is not a drop-in replacement! This is two years of comments and bug fixes
* queued up and
* finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to
* everyone
* else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null
* values or
* something similar. Here are some changes that may affect you:
* * ul
* * Doesn’t break lines, by default. This is to keep in compliance with
* * Throws exceptions instead of returning null values. Because some operations (especially those
* that may permit
* the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some
* discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOException rather than return null if ever
* there's an
* error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been
done
* this way to begin with.</li>
* * Removed all references to System.out, System.err, and the like. Shame on me. All I can say is
* sorry they were
* ever there.</li>
* * Throws NullPointerExceptions and IllegalArgumentExceptions as needed such as when passed
* arrays are null or
* offsets are invalid.</li>
* * Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before
* for people who
* were thorough in their own projects and then had gobs of javadoc warnings on this file.</li>
* *
* *v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files
* (~&lt; 40 bytes).</li>
* v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to
* support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
* <ol>
* <li>The default is RFC3548 format.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves
* lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html</li>
* </ol>
* Special thanks to Jim Kellerman at http://www.powerset.com/ for
* contributing the new
* Base64 dialects.</p>

* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and
* writing to and from files.</p>
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</p>
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</p>
* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code
* now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are
* cleaner. You'll probably have to change some method calls that you were making to support the new options format (</tp><tt>int</tt>s that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode( String s, boolean gzipCompressed ).</p>
* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed
* base64 data in an otherwise "normal" stream (like an XML file).</p>
* v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added
* the ability to GZip-compress objects before encoding them.</p>
* v1.4 - Added helper methods to read/write files.</p>
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</p>
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not
* completely full, was not returned.</p>
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</p>
* v1.3.3 - Fixed I/O streams which were totally messed up.</p>
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warranties but
* with plenty of well-wishing instead! Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements.
* </p>
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

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  jar/io/undertow/security/impl/AbstractSecurityContext.java
* /opt/cola/permits/1150250421_1627682120.15/0/undertow-core-2-0-28-final-sources-
  jar/io/undertow/security/api/AuthenticationMechanismContext.java
* /opt/cola/permits/1150250421_1627682120.15/0/undertow-core-2-0-28-final-sources-
  jar/io/undertow/security/handlers/AbstractSecurityContextAssociationHandler.java

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  jar/io/undertow/protocols/alpn/DefaultAlpnEngineManager.java
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  jar/io/undertow/protocols/ssl/SNISSLContextSpi.java
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* /opt/cola/permits/1150250421_1627682120.15/0/undertow-core-2-0-28-final-sources-
  jar/io/undertow/protocols/ssl/SNISSLExplorer.java
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 */
/**
 * Handler responsible for checking of confidentiality is required for the requested resource and if so rejecting the
 * request and redirecting to a secure address.
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */
/**
 * Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
 *
 * Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual
 * SSLSession.
 *
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return true if the request is 'sufficiently' confidential, false otherwise.
 */
/**
 * Use the HttpServerExchange to identify if confidentiality is required.
 *
 * This method currently returns true for all requests, sub-classes can override this to provide a custom check.
 *
 * TODO: we should deprecate this and just use a predicate to decide to execute the handler instead
 *
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return true if the request requires confidentiality, false otherwise.
 */
/**
 * All sub-classes are required to provide an implementation of this method, using the HttpServerExchange for the

current
* request return the address to use for a redirect should confidentiality be required and the request not be confidential.
*
* @param exchange - The [@link HttpServerExchange] for the request being processed.
* @return The [@link URI] to redirect to.
*/

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* /opt/cola/permits/1150250421_1627682120.15/0/undertow/server/handlers/proxy/mod_cluster/Context.java
* /opt/cola/permits/1150250421_1627682120.15/0/undertow/server/handlers/proxy/mod_cluster/MCMPConfig.java
* /opt/cola/permits/1150250421_1627682120.15/0/undertow/server/handlers/proxy/MCMPEndPointErrorHandler.java
* /opt/cola/permits/1150250421_1627682120.15/0/undertow/server/handlers/proxy/mod_cluster/MCMPErrCode.java
* /opt/cola/permits/1150250421_1627682120.15/0/undertow/server/handlers/proxy/mod_cluster/NodeHealthChecker.java
* /opt/cola/permits/1150250421_1627682120.15/0/undertow/server/handlers/proxy/ProxyConnectionPoolConfig.java
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io.undertow.protocols.alpn.JDK8HackAlpnProvider
io.undertow.protocols.alpn.JettyAlpnProvider
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* /opt/cola/permits/1150250421_1627682120.15/0/undertow-core-2-0-28-final-sources-jar/META-INF/services/io.undertow.protocols.alpn.ALPNProvider
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* /opt/cola/permits/1150250421_1627682120.15/0/undertow-core-2-0-28-final-sources-jar/io/undertow/websockets/core/WebSocketLogger.java
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* /opt/cola/permits/1150250421_1627682120.15/0/undertow-core-2-0-28-final-sources-jar/io/undertow/predicate/EqualsPredicate.java
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===================================================================
= For Base64.java file =
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```
src/main/java/org/apache/activemq/utils/Base64.java
```

### 1.1024 plexus-io 2.0.9

### 1.1025 resteasy-jax-rs 3.9.0.Final

#### 1.1025.1 Available under license:

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```java
/**
 * Encodes and decodes to and from Base64 notation.
 * <p>Homepage: http://iharder.net/base64.</p>
 * <p>Example:</p>
 * <code>
 * String encoded = Base64.encode( myByteArray );
 * </code>
 * <br>
 * <code>
 * byte[] myByteArray = Base64.decode( encoded );
 * </code>
 * <p>The <code>options</code> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes (bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds,
 * and encoding using the URL-safe and Ordered dialects.</p>
 * <p>Note, according to RFC3548, Section 2.1, implementations should not add line feeds unless explicitly told
 * to do so. I've got Base64 set to this behavior now, although earlier versions
 * broke lines by default.</p>
 * <p>The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:</p>
 * <code>
 * String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );
 * </code>
 * <p>to compress the data before encoding it and then making the output have newline characters.</p>
 * <p>Also...</p>
 * <code>
 * String encoded = Base64.encodeBytes( crazyString.getBytes() );
 * </code>
 * Change Log:
 * </p>
 * <ul>
 * <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the
 * value 01111111, which is an invalid base 64 character but should not
 * throw an ArrayIndexOutOfBoundsException either. Led to discovery of
 * mishandling (or potential for better handling) of other bad input
 * </li>
 * </ul>
```
* characters. You should now get an IOException if you try decoding
* something that has bad characters in it.</li>
* v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
* contained an extra (null) byte that made it into the string.</li>
* v2.3.5 - Fixed bug in {@link #encodeFromFile} where estimated buffer size
* was wrong for files of size 31, 34, and 37 bytes.</li>
* v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64.OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* {@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)}
* method.</li>
* v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
* footprint with its CharEncoders and so forth. Fixed some javadocs that were
* inconsistent. Removed imports and specified things like java.io.IOException
* explicitly inline.</li>
* v2.3.2 - Reduced memory footprint! Finally refined the “guessing” of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the {@link #encodeBytesToBytes(byte[])} family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff).</li>
* v2.3.1 - Added {@link #encodeBytesToBytes(byte[], int, int, int)} and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
* v2.3 - This is not a drop-in replacement!</li>
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
* Does not break lines, by default. This is to keep in compliance with
* a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>. Here are some changes
* Throws exceptions instead of returning null values. Because some operations
* (especially those that may permit the GZIP option) use IO streams, there
* is a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions
* rather than return null if ever there's an error. I think this is more
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.</li>
* Removed all references to System.out, System.err, and the like.</li>
* Shame on me. All I can say is sorry they were ever there.</li>
* Throws NullPointerExceptions and IllegalArgumentExceptions as needed
* such as when passed arrays are null or offsets are invalid.</li>
* Cleaned up as much javadoc as I could to avoid any javadoc warnings.
* This was especially annoying before for people who were thorough in their

---

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* own projects and then had gobs of javadoc warnings on this file.<li>
* </ul>
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~&lt; 40 bytes).</li>
* v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* 
* The default is RFC3548 format.</li>
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* http://www.faqs.org/rfcs/rfc3548.html
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
* URL and file name friendly format that preserves lexical ordering as described
* in http://www.faqs.org/qa/rfc-1940.html
* 
* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.
* 
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</li>
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</li>
* v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (</code>int</code>s that you "OR" together).</li>
* v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using </code>decode( String s, boolean gzipCompressed )</code>.
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).</li>
* v1.5 - Output stream passes on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.</li>
* v1.4 - Added helper methods to read/write files.</li>
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.</li>
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* v1.3.3 - Fixed I/O streams which were totally messed up.</li>
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* plenty of well-wishing instead!
* Please visit http://iharder.net/base64 periodically to check for updates or to contribute improvements.
* 
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1086188540_1599251733.5/0/resteasy-jaxrs-3-9-0-final-sources-
  jar/org/jboss/resteasy/util/Base64.java
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  jar/org/jboss/resteasy/util/PortProvider.java
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/**
* Any exception thrown by a MessageBodyWriter chain that is not an instance of a WriterException is caught
* internally by the Resteasy runtime and wrapped with an instance of WriterException.
* 
* If you want to have special exception handling for exceptions thrown by MessageBodyWriters and their interceptors, then write an exception
* mapper for WriterException.
* 
* Also, you may extend this class and throw instances of it from your MessageBodyWriters (and interceptors)
* 

[1.1026 maven-clean-plugin 2.5](#)

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1.1027 maven-compiler-plugin 3.7.0

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

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1.1034 libfontenc 1.1.3-3.el7

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1.1035 xz 5.2.2-1.el7_9.0atomix1

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That's all there is to it!

### 1.1037 nested-lookup 0.2.17

#### 1.1037.1 Available under license:

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```
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```

Metadata-Version: 1.1
Name: nested-lookup
Version: 0.2.17
Summary: Python functions for working with deeply nested documents (lists and dicts)
Home-page: https://github.com/russellballestrini/nested-lookup
Author: Russell Ballestrini
Author-email: russell@ballestrini.net
License: Public Domain
Description: nested_lookup

```
```

.. image:: https://img.shields.io/pypi/0.2.17-green.svg
   :target: https://pypi.python.org/pypi/nested-lookup

.. image:: https://travis-ci.org/rameshrvr/nested-lookup.svg?branch=master
   :target: https://travis-ci.org/rameshrvr/nested-lookup

Make working with JSON, YAML, and XML document responses fun again!
The `nested_lookup` package provides many Python functions for working with deeply nested documents. A document in this case is a mixture of Python dictionary and list objects typically derived from YAML or JSON.

*nested_lookup:*
Perform a key lookup on a deeply nested document.
Returns a `list` of matching values.

*nested_update:*
Given a document, find all occurrences of the given key and update the value.
By default, returns a copy of the document.
To mutate the original specify the `in_place=True` argument.

*nested_delete:*
Given a document, find all occurrences of the given key and delete it.
By default, returns a copy of the document.
To mutate the original specify the `in_place=True` argument.

*nested_alter:*
Given a document, find all occurrences of the given key and alter it with a callback function
By default, returns a copy of the document.
To mutate the original specify the `in_place=True` argument.

*get_all_keys:*
Fetch all keys from a deeply nested dictionary.
Returns a `list` of keys.

*get_occurrence_of_key/get_occurrence_of_value:*
Returns the number of occurrences of a key/value from a nested dictionary.

For example function invocations, please see the tutorial.

.. contents::

install
========

install from pypi using pip::<

pip install nested-lookup

or easy_install::<

easy_install nested-lookup

or install from source using::<
```python
>>> from nested_lookup import nested_lookup
>>> document = [ { 'taco': 42 } , { 'salsa': [ { 'burrito': { 'taco': 69 } } ] } ]
>>> print(nested_lookup('taco', document))
[42, 69]
```

```python
>>> from nested_lookup import nested_update, nested_delete
>>> nested_update(document, key='burrito', value='Test')
[['taco': 42], ['salsa': [{'burrito': 'Test'}]]]

>>> nested_delete(document, 'taco')
[{}, {'salsa': [{'burrito': {}}]]]
```

*Nested Alter*:
write a callback function which processes a scalar value.
Be aware about the possible types which can be passed to the callback functions.
In this example we can be sure that only int will be passed, in production you should check the type because it could be anything.

```python
>>> def callback(data):
...     return data + 10  # add 10 to every taco prize

The alter-version only works for scalar input (one dict), if you need to adress a list of dicts, you have to manually iterate over those and pass them to nested_update one by one

```python
>>> out =[]
>>> for elem in document:
...     altered_document = nested_alter(elem,"taco", callback)
...     out.append(altered_document)
```
>>> print(out)

>>> from nested_lookup import get_all_keys

>>> get_all_keys(document)
['taco', 'salsa', 'burrito', 'taco']

>>> from nested_lookup import get_occurrence_of_key, get_occurrence_of_value

>>> get_occurrence_of_key(document, key='taco')
2

>>> get_occurrence_of_value(document, value='42')
1

longer tutorial
===============
You may control the function's behavior by passing some optional arguments.

wild (defaults to 'False'):
if `wild` is `True`, treat the given `key` as a case insensitive
substring when performing lookups.

with_keys (defaults to 'False'):
if `with_keys` is `True`, return a dictionary of all matched keys
and a list of values.

For example, given the following document:

.. code-block:: python

    from nested_lookup import nested_lookup

    my_document = {
        'name' : 'Russell Ballestrini',
        'email_address' : 'test1@example.com',
        'other' : {
            'secondary_email' : 'test2@example.com',
            'EMAIL_RECOVERY' : 'test3@example.com',
            'email_address' : 'test4@example.com',
        },
    },

    Next, we could act `wild` and find all the email addresses like this:
```python
results = nested_lookup(  
    key = 'mail',  
    document = my_document,  
    wild = True  
)

print(results)
```

```python
['test1@example.com', 'test4@example.com', 'test2@example.com', 'test3@example.com']
```

Additionally, if you also needed the matched key names, you could do this:

```python
results = nested_lookup(  
    key = 'mail',  
    document = my_document,  
    wild = True,  
    with_keys = True,  
)

print(results)
```

```python
{
    'email_address': ['test1@example.com', 'test4@example.com'],
    'secondary_email': ['test2@example.com'],
    'EMAIL_RECOVERY': ['test3@example.com']
}
```

To Get / Delete / Update a key->value pair in nested document

```python
from nested_lookup import nested_update, nested_delete

result = nested_delete(my_document, 'EMAIL_RECOVERY')

print(result) # result => {'other': {'secondary_email': 'test2@example.com', 'email_address': 'test4@example.com'}, 'email_address': 'test1@example.com', 'name': 'Russell Ballestrini'}

result = nested_update(my_document, key='other', value='Test')
```
print(result)  # result => {'other': 'Test', 'email_address': 'test1@example.com', 'name': 'Russell Ballestrini'}

To get a list of every nested key in a document, run this:

.. code-block:: python

    from nested_lookup import get_all_keys

    keys = get_all_keys(my_document)

    print(keys)

.. code-block:: python

    ['name', 'email_address', 'other', 'secondary_email', 'EMAIL_RECOVERY', 'email_address']

To get the number of occurrence of the given key/value

.. code-block:: python

    from nested_lookup import get_occurrence_of_key, get_occurrence_of_value

    no_of_key_occurrence = get_occurrence_of_key(my_document, key='email_address')

    print(no_of_key_occurrence)  # result => 2

    no_of_value_occurrence = get_occurrence_of_value(my_document, value='test2@example.com')

    print(no_of_value_occurrence)  # result => 1

misc

========

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:authors:
* Russell Ballestrini
* Douglas Miranda
* Ramesh RV
* Salfiiii (Florian S.)

:web:
* http://russell.ballestrini.net
* http://douglasmiranda.com
Keywords: nested document dictionary dict list lookup schema json xml yaml

Platform: All
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7

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1.1038 okhttp 3.14.4

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1.1039 libtiff 4.0.10-8.el7_9.0atomix1

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1.1041 jsr311-api 1.1.1

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/primitives/Doubles.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/net/InetAddresses.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/escape/UnicodeEscaper.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/base/internal/Finalizer.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/primitives/Longs.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/io/MultiReader.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/base/Converter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/base/Stopwatch.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/primitives/Booleans.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/primitives/Floats.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/primitives/Ints.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/base/Matchers.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/net/PercentEscaper.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/base/Joiner.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/primitives/Chars.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/primitives/Shorts.java
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  jar/com/google/common/math/Quantiles.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/base/MoreObjects.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/eventbus/Dispatcher.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/eventbus/Subscriber.java

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  jar/com/google/common/hash/ImmutableSupplier.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/ExecutionSequencer.java

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  jar/com/google/common/collection/CompactHashSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/collection/CompactHashMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/collection/CompactLinkedHashSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/collection/ForwardingImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/collection/ForwardingDeque.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/collection/AllEqualOrdering.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/collection/ForwardingNavigableMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/TransformedListIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/FilteredEntrySetMultimap.java

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*/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/CommonMatcher.java
*/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/PatternCompiler.java
*/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/JdkPattern.java
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*/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/annotations/GwtCompatible.java
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*/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/InternetDomainName.java
*/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Service.java
*/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
*/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java
*/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/MapMakerInternalMap.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedMultisets.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/Striped64.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/Striped64.java
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*/

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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* [@code GwtIncompatible]. This is more accurate for @link Futures#catching, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
* it as a [@code GwtIncompatible] annotation. And for [@code Futures$catching], we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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jar/com/google/common/graph/ImmutableNetwork.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/graph/PredecessorsFunction.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/graph/SuccessorsFunction.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/graph/MutableNetwork.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/TopKSelector.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/Graph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/Network.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/MutableGraph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/Graphs.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ImmutableGraph.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/SortedMapDifference.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/UnmodifiableListIterator.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/CharEscaper.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources
jar/com/google/common/util/concurrent/Futures.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/AppendableWriter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/CaseFormat.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
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jar/com/google/common/base/Verify.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/hash/HashingInputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/io/CharSequenceReader.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/reflect/TypeVisitor.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/base/Utf8.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collect/AbstractTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/base/VerifyException.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/util/concurrent/Runnables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

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*/
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular version.
*/

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java

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  jar/com/google/common/graph/AbstractGraph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/collect/Comparators.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/AbstractValueGraph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/MapRetrievalCache.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/NetworkBuilder.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/MapRetentionCache.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/ConfigurableMutableNetwork.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/ConfigurableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/GraphConnections.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/EndpointPairIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/MapRetrievalCache.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/graph/UndirectedNetworkConnections.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/Interner.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingObject.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/Iterables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/RegularImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/Synchronized.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/NaturalOrdering.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/MapDifference.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ArrayListMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/TreeMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ReverseOrdering.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/Iterators.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collect/Maps.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableList.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/TreeMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingListIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/HashMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingList.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/EnumBiMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Multimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ComparatorOrdering.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SingletonImmutableSet.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractListMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Sets.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/HashMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/HashMultiset.java
jar/com/google/common/collection/ImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/SetMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/AbstractIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingCollection.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/IndexedImmutableSet.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/MultimapBuilder.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ComputationException.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ComparisonChain.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ImmutableTable.java
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*/

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 */

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/BaseGraph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ObjectCountHashMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/FileWriteMode.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/html/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/reflect/Element.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/reflect/TypeCapture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/math/LinearTransformation.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/collect/CartesianList.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/hash/SipHashFunction.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/hash/LongAddable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/PairedStats.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/Invokable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteSource.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/Parameter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/StatsAccumulator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/Stats.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/ChecksumHashFunction.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/Count.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/GeneralRange.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/AbstractRangeSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/SortedIterables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/SortedIterable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/RangeSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingSortedMultiset.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/Subscribe.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/MultiInputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/DeadEvent.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CharStreams.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ListenerableFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/EnumMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/Primitives/Primitives.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Supplier.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/Closeables.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/HashBiMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Defaults.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Charsets.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Objects.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/HashBiMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Defaults.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Charsets.java
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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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  jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/io/ReaderInputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/InterruptibleTask.java
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  jar/com/google/common/util/concurrent/Platform.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/collect/ConsumingQueueIterator.java
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  jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/hash/MacHashFunction.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Strings.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/HashBasedTable.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/UnsignedLongs.java
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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b>
 * Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 *
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 * ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

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* /opt/cola/permits/1150250115_1627682363.75/0/wildfly-elytron-http-spnego-1-10-3-final-sources-jar/org/wildfly/security/http/spnego/SpnegoMechanismFactory.java

1.1053 e2fsprogs 1.42.9-19.el7_9.0atomix1
### 1.1053.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Index: tldb/tdbsa/tdb.c
===================================================================
--- tldb/tdbsa.orig/tdb.c
+++ tldb/tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \
-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007
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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/es/SpanishMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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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.

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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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1.1059 jjwt-jackson 0.11.1

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Found in path(s):
* /opt/cola/permits/1158095159_1619705645.8/0/jjwt-jackson-0-11-1-jar/META-INF/maven/io.jsonwebtoken/jjwt-jackson/pom.xml

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Manifest-Version: 1.0
Export-Package: io.jsonwebtoken.jackson.io;uses="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,io.jsonwebtoken.io";version="0.11.1"
Implementation-Title: JJWT :: Extensions :: Jackson
Built-By: lhazlewood
Tool: Bnd-3.3.0.201609221906
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Implementation-Vendor: jsonwebtoken.io
Implementation-Vendor-Id: io.jsonwebtoken
Specification-Title: JJWT :: Extensions :: Jackson
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.jsonwebtoken.jjwt-jackson
Implementation-Version: 0.11.1
Specification-Vendor: jsonwebtoken.io
Bundle-Name: JJWT :: Extensions :: Jackson
Created-By: Apache Maven Bundle Plugin
Implementation-URL: https://github.com/jwtk/jjwt/jjwt-jackson
Bundle-Vendor: jsonwebtoken.io
Build-Jdk: 1.7.0_80
Bundle-Version: 0.11.1
Bnd-LastModified: 1584046815507
Bundle-ManifestVersion: 2
Bundle-Description: JSON Web Token support for the JVM and Android
Specification-Version: 0.11.1
Import-Package: com.fasterxml.jackson.core;version="[2.9,3)",com.fasterxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databind.deser.std;version="[2.9,3)",com.fasterxml.jackson.databind.module;version="[2.9,3)",io.jsonwebtoken.io;version="[0.11,1)",io.jsonwebtoken.lang;version="[0.11,1)"
Bundle-DocURL: https://github.com/jwtk/jjwt

Found in path(s):
* /opt/cola/permits/1158095159_1619705645.8/0/jjwt-jackson-0-11-1-jar/META-INF/MANIFEST.MF
1.1060 gson 2.8.2

1.1061 maven-shared-utils 3.2.1

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1.1062 md5-simd v1.1.0

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1.1063 thrift 0.13.0

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- 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/fi/FinnishLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c8f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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

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<!-
- Local variables:
- mode: sgml
- End:
-->

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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/**
 * Encodes and decodes to and from Base64 notation. <p/>
 * Change Log:
 * <ul>
 * <li>v2.1 - Cleaned up javadoc comments and unused variables and
 * methods. Added some convenience methods for reading and writing to and from
 * files.</li>
 * <li>v2.0.2 - Now specifies UTF-8 encoding in places where the
 * code fails on systems with other encodings (like EBCDIC).</li>
 * <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data
 * was a single byte.</li>
 * <li>v2.0 - I got rid of methods that used booleans
 * to set options. Now everything is more consolidated and cleaner. The code
 * now detects when data that's being decoded is gzip-compressed and will
 * decompress it automatically. Generally things are cleaner. You'll probably
 * have to change some method calls that you were making to support the new
 * options format (i.e., int s that you "OR" together).</li>
 * <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(
 * String s, boolean gzipCompressed ), Added the ability to "suspend"
* encoding in the Output Stream so you can turn on and off the encoding if you
* need to embed base64 data in an otherwise "normal" stream (like an XML
* file). </li> <li>v1.5 - Output stream pases on flush() command but doesn't do
* anything itself. This helps when using GZIP streams. Added the ability to
* GZip-compress objects before encoding them. </li> <li>v1.4 - Added helper
* methods to read/write files. </li> <li>v1.3.6 - Fixed OutputStream.flush() so
* that 'position' is reset. </li> <li>v1.3.5 - Added flag to turn on and off
* line breaks. Fixed bug in input stream where last buffer being read, if not
* completely full, was not returned. </li> <li>v1.3.4 - Fixed when "improperly
* padded stream" error was thrown at the wrong time. </li> <li>v1.3.3 - Fixed
* I/O streams which were totally messed up. </li> <p> I am placing
* this code in the Public Domain. Do with it as you will. This software comes
* with no guarantees or warranties but with plenty of well-wishing instead!
* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements. </p>
* 
* @author Robert Harder
* @author rob@iharder.net
* @since 4.2
* @deprecated Not currently used internally by Infinispan; will be removed in ver. 10. Other users are advised to
* replace it with [ @link java.util.Base64].
*/

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* /opt/cola/permits/1192266766_1629183518.54/0/infinispan-commons-9-4-20-final-sources-
  jar/org/infinispan/commons/util/Base64.java

1.1088 jackson-databind 2.9.9
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* /opt/cola/permits/1150249976_1627682066.26/0/wildfly-elytron-x500-1-10-3-final-sources-jar/org/wildfly/security/x500/util/X500PrincipalUtil.java
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1.1096 spring-boot-autoconfigure

2.2.0.RELEASE

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* /opt/cola/permits/1137256782_1614040809.77/0/spring-boot-autoconfigure-2-2-0-release-sources-1-jar/org/springframework/boot/autoconfigure/mustache/MustacheAutoConfiguration.java

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1.1106 ubuntu-keyring 2020.02.11.2

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1.1107 commons-digester 1.6
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  jar/org/apache/commons/digester/substitution/VariableExpander.java
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  jar/org/apache/commons/digester/plugins/PluginDeclarationRule.java

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*/opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-
jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java

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  jar/org/apache/commons/digester/ParserFeatureSetterFactory.java
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Daniel Savarese <dfs at savarese.org> is the original author of the OROMatcher, PerlTools, AwkTools, and TextTools packages that became the Jakarta-ORO project.
Jon Stevens <jon at collab.net> helped prepare the first release of jakarta-oro and is a constant help in keeping the project consistent with the Jakarta project as a whole.

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\UuLlE and escaping of $.

Michael Davey <michael.davey at coderage.org> fixed some documentation and added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated MatchActionProcessor.processMatches() to accommodate character encodings.

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1.1118 annotations 4.1.1.4

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*/
1.1119 cglib 2.2

1.1120 spring-web 5.2.2.RELEASE

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Found in path(s):
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/web/context/support/ServletConfigPropertySource.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/http/client/AbstractClientHttpRequest.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/http/context/support/ServletContextPropertySource.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/web/context/request/FacesWebRequest.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/web/jsf/FacesContextUtils.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/http/client/ClientHttpRequestFactory.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/http/context/support/ConfigurableWebApplicationContext.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/http/server/ServerHttpRequest.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java
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Found in path(s):
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/http/client/AbstractClientHttpRequest.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-
jar/org/springframework/http/context/request/FacesWebRequest.java
* /opt/cola/permits/1141988932_1615255825.83/0/spring-web-5-2-2-release-sources-2-

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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
#
# MIME type (lowercased)Extensions
# ============================================
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<thead>
<tr>
<th>MIME type</th>
<th>Extensions</th>
</tr>
</thead>
<tbody>
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<td></td>
</tr>
<tr>
<td>application/3gpdash-qoe-report+xml</td>
<td></td>
</tr>
<tr>
<td>application/3gpp-ims+xml</td>
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<tr>
<td>application/a2l</td>
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</tr>
<tr>
<td>application/activemessage</td>
<td></td>
</tr>
<tr>
<td>application/alto-costmap+json</td>
<td></td>
</tr>
<tr>
<td>application/alto-costmapfilter+json</td>
<td></td>
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<tr>
<td>application/alto-directory+json</td>
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<td>application/alto-endpointcost+json</td>
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<tr>
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</tr>
<tr>
<td>application/alto-endpointprop+json</td>
<td></td>
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<tr>
<td>application/alto-endpointpropparams+json</td>
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<tr>
<td>application/alto-error+json</td>
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<tr>
<td>application/alto-networkmap+json</td>
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<tr>
<td>application/alto-networkmapfilter+json</td>
<td></td>
</tr>
<tr>
<td>application/aml</td>
<td></td>
</tr>
<tr>
<td>application/andrew-insetez</td>
<td></td>
</tr>
<tr>
<td>application/applefile</td>
<td></td>
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<tr>
<td>application/applixwareaw</td>
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<tr>
<td>application/atf</td>
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<td>application/atfx</td>
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</tr>
<tr>
<td>application/atom+xmlatom</td>
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<tr>
<td>application/atomcat+xmlatomcat</td>
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</tr>
<tr>
<td>application/atomdeleted+xml</td>
<td></td>
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<tr>
<td>application/atomicmail</td>
<td></td>
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<tr>
<td>application/atomsvc+xmlatomsvc</td>
<td></td>
</tr>
<tr>
<td>application/atxml</td>
<td></td>
</tr>
</tbody>
</table>

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 10367
# application/auth-policy+xml
# application/bacnet-xdd+xml
# application/batch-smtp
# application/beep+xml
# application/calendar+xml
# application/calendar+json
# application/call-completion
# application/cals-1840
# application/ccmp+xml
application/ccxml+xml	
cxml
# application/cdfx+xml
application/cdmi-capability+xml
application/cdmi-container+xml
application/cdmi-domain+xml
application/cdmi-object+xml
application/cdmi-queue+xml
# application/cdni
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfaw
# application/cms
# application/cnnp+xml
# application/coap-group+json
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/cstadata+xml
# application/csvm+xml
application/cu-seeme
# application/cybercash
# application/dash+xml
# application/dashdelta
application/davmount+xml
davmount
# application/dca-rft
# application/dcd
# application/decd
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
application/docbook+xml	dbk
# application/dskpp+xml
application/dssc+der	dssc
application/dssc+xml
# application/dvcs
application/ecmascriptecma
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/emergencycalldata.providerinfo+xml
# application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml
# application/emotionml+xml
# application/encaprtp
# application/epp+xml
application/epub+zip
# application/eshop
# application/example
application/exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
# application/fits
# application/font-sfnt
application/font-tdpfr
# application/font-woff
# application/font-woff2
# application/framework-attributes+xml
# application/geo+json
application/gml+xml
application/gpx+xml
application/gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudio
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml
# application/inkml
# application/mbms-user-service-description+xml
application/mboxmbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml mscml
# application/merge-patch+json
application/metalink+xml metalink
application/metalink4+xml meta4
application/mets+xml mets
# application/mf4
# application/mikey
application/mods+xml mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21m21 mp21
application/mp4mp4s
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msworddoc dot
application/mxfmxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/odaoda
# application/odx
application/odbc-package+xmllopf
application/oggogx
application/omdoc+xmllomdoc
application/onenoteonetoc onetoc2 onetmp onepkg
application/oxpsoxps
# application/p2p-overlay+xml
# application/parityfec
application/packet-ops-error+xmllexer
application/pdfpdf
# application/pdx
# application/rpki-updown
application/rsd+xml
application/rss+xml
text/rdf+xml
application/rtf

# application/rtploopback

# application/rtx

# application/samlassertion+xml
application/samlmetadata+xml
application/shf+xml

# application/scaip+xml

# application/scim+json
application/scvp-cv-request
application/scvp-cv-response
application/scvp-vp-request
application/scvp-vp-response
application/sdp

# application/sep+xml

# application/sep-exi

# application/session-info
application/set-payment
application/set-payment-initiation
application/set-registration
application/set-registration-initiation

# application/sgml
application/sgml-open-catalog
application/shf+xml

# application/simple-filter+xml

# application/simple-message-summary

# application/simplesymbolcontainer

# application/slate

# application/smil
application/smil+xml
application/srxml

# application/srxml

# application/sparql-query
application/sparql-results+xml

# application/spirits-event+xml

# application/sql

application/srgs
application/srgs+xml
application/sru+xml

# application/tamp-apex-update

# application/tamp-apex-update-confirm

# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xml tei teicorpus
application/thraud+xml tfi
# application/timestamp-query
# application/timestamp-reply
application/timestamped-datatsd
# application/ttml+xml
# application/tve-trigger
# application/ulpfec
# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/urc-targetdesc+xml
# application/urc-uisocketdesc+xml
# application/vcard+json
# application/vcard+xml
# application/vemmi
# application/vividence.scriptfile
# application/vnd.3gpp-prose+xml
# application/vnd.3gpp-prose-pc3ch+xml
# application/vnd.3gpp.access-transfer-events+xml
# application/vnd.3gpp.bsf+xml
# application/vnd.3gpp.mid-call+xml
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# application/vnd.3gpp.sms
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# application/vnd.3gpp.srvcc-ext+xml
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# application/vnd.panoply
# application/vnd.paos.xml
application/vnd.pawaafilepaw
# application/vnd.pcos
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application/vnd.picideleif
application/vnd.pmi.widgetwg
# application/vnd.poc.group-advertisement+xml
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# application/vnd.powerbuilder6-s
# application/vnd.powerbuilder7
# application/vnd.powerbuilder7-s
# application/vnd.powerbuilder75
# application/vnd.powerbuilder75-s
# application/vnd.preminet
application/vnd.previewsystems.boxbox
application/vnd.proteus.magazinemgz
application/vnd.publishare-delta-treemqps
application/vnd.pvi.pidtid1ptid
# application/vnd.pwg-multiplexed
# application/vnd.pwg-xhtml-print+xml
# application/vnd.qualcomm.brew-app-res
# application/vnd.quarantainenet
application/vnd.quark.quarkxpressqxd qxt qwd qwt qx1 qx8
# application/vnd.quoject-quoxdocument
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# application/vnd.radisys.msml-audit-dialog+xml
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# application/vnd.radisys.msml-dialog-speech+xml
# application/vnd.radisys.msml-dialog-transform+xml
# application/vnd.rainstor.data
# application/vnd.rapid
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application/vnd.realvnc.bedbed
application/vnd.recordare.musicxmlmxl
# application/vnd.xmi+xml
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# application/vnd.xmpie.dpkg
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# audio/mobile-xmf
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# audio/vnd.dolby.pulse.1
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# audio/vnd.dvb.file
# audio/vnd.everad.plj
# audio/vnd.hns.audio
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# audio/vnd.nortel.vbk
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# audio/vnd.octel.sbc
# audio/vnd.qcelp
# audio/vnd.rhetorex.32kadpcm
audio/vnd.riprip
# audio/vnd.sealedmedia.softseal.mpeg
# audio/vnd.vmx.cvstd
# audio/vorbis
# audio/vorbis-config
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audio/x-aiaiff aiff aifc
audio/x-cafa caf
audio/x-flac flac
audio/x-matroskamka
audio/x-mpegurlm3u
audio/x-ms-wax wax
audio/x-ms-wmawma
audio/x-pn-realaudiooram ra
audio/x-pn-realaudio-pluginrpm
# audio/x-tta
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audio/xmxml
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jar/"org/springframework/http/converter/HttpMessageConverter.java
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  jar/org/springframework/web/socket/handler/WebSocketHandlerDecorator.java
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  jar/org/springframework/web/socket/sockjs/frame/SockJsFrameFormat.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-
  jar/org/springframework/web/socket/SubProtocolCapable.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-
  jar/org/springframework/web/socket/sockjs/transport/handler/XhrReceivingTransportHandler.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-
  jar/org/springframework/web/socket/sockjs/SockJsMessageDeliveryException.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-
  jar/org/springframework/web/socket/WebSocketHandler.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-
  jar/org/springframework/web/socket/handler/AbstractWebSocketHandler.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-
  jar/org/springframework/web/socket/client/standard/WebSocketContainerFactoryBean.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-
  jar/org/springframework/web/socket/sockjs/frame/DefaultSockJsFrameFormat.java
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* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/sockjs/client/TransportRequest.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/sockjs/client/Transport.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/sockjs/transport/SockJsSession.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/sockjs/client/XhrTransport.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/server/support/DefaultHandshakeHandler.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/sockjs/SockJsTransportFailureException.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/server/HandshakeFailureException.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/handler/WebSocketHandlerDecoratorFactory.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/messaging/SessionConnectEvent.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/handler/LoggingWebSocketHandlerDecorator.java

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* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/handler/WebSocketHandlerDecoratorFactory.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/sockjs/frame/SockJsMessageCodec.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/messaging/SessionConnectEvent.java
* /opt/cola/permits/1150250181_1627682074.8/0/spring-websocket-5-2-2-release-sources-jar/org/springframework/web/socket/handler/LoggingWebSocketHandlerDecorator.java
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package utilccl

import (
    "fmt"
    "testing"
    "time"

    "github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"
    "github.com/cockroachdb/cockroach/pkg/testutils"
    "github.com/cockroachdb/cockroach/pkg/util/timeutil"
    "github.com/cockroachdb/cockroach/pkg/util/uuid"
)

func TestLicense(t *testing.T) {
    clusterA, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")
    clusterB, _ := uuid.FromString("B0000000-0000-0000-0000-00000000000B")

    clustersA, clustersB := []uuid.UUID{clusterA}, []uuid.UUID{clusterB}

    t0 := timeutil.Unix(0, 0)
    ts := t0.AddDate(40, 0, 0)
    after := ts.Add(time.Hour * 24)
    before := ts.Add(time.Hour * -24)
    wayAfter := ts.Add(time.Hour * 24 * 365 * 200)
for i, tc := range []struct {
  licType     licenseccl.License_Type
  grantedTo   []uuid.UUID
  expiration  time.Time
  checkCluster uuid.UUID
  checkOrg    string
  checkTime   time.Time
  err         string
}{
  licType: -1, err: "requires an enterprise license"},
  licenseccl.License_Evaluation, clustersA, ts, clusterA, "", ts, ""},
  licenseccl.License_Enterprise, clustersA, ts, clusterA, "", ts, ""},
  licenseccl.License_NonCommercial, clustersA, ts, clusterA, "", ts, ""},
  licenseccl.License_Evaluation, clustersA, after, clusterA, "", ts, ""},
  licenseccl.License_Evaluation, clustersA, ts, clusterA, "", ts, ""},
  licenseccl.License_Enterprise, clustersA, after, clusterA, "", wayAfter, ""},
  licenseccl.License_Enterprise, clustersA, before, clusterA, "", wayAfter, ""},
  licenseccl.License_Evaluation, clustersA, wayAfter, clusterA, "", ts, ""},
// expirations.
  licenseccl.License_Evaluation, clustersA, ts, clusterA, "", after, "expired"},
  licenseccl.License_Evaluation, clustersA, after, clusterA, "", wayAfter, "expired"},
  licenseccl.License_NonCommercial, clustersA, after, clusterA, "", wayAfter, "expired"},
  licenseccl.License_NonCommercial, clustersA, t0, clusterA, "", wayAfter, ""},
  licenseccl.License_Evaluation, clustersA, t0, clusterA, "", wayAfter, ""},
// grace period.
  licenseccl.License_Enterprise, clustersA, after, clusterA, "", wayAfter, ""},
// mismatch.
  licenseccl.License_Enterprise, clustersA, ts, clusterB, "", ts, "not valid for cluster"},
  licenseccl.License_Enterprise, clustersB, ts, clusterA, "", ts, "not valid for cluster"},
  licenseccl.License_Enterprise, append(clustersB, clusterA), ts, clusterA, "", ts, ""},
  licenseccl.License_Enterprise, nil, ts, clusterA, "", ts, "license valid only for"},
  licenseccl.License_Enterprise, nil, ts, clusterA, "tc-17", ts, ""},
} {
  var lic *licenseccl.License
  if tc.licType != -1 {
    s, err := (&licenseccl.License{
      ClusterID: tc.grantedTo,
      ValidUntilUnixSec: tc.expiration.Unix(),
      Type: tc.licType,
      OrganizationName: fmt.Sprintf("tc-%d", i),
    }).Encode()
    if err != nil {
      t.Fatal(err)
    }
  } else {
    lic, err = decode(s)
if err != nil {
    t.Fatal(err)
}

if err := check(lic, tc.checkTime, tc.checkCluster, tc.checkOrg, ",
); !testutils.IsError(err, tc.err) {
    t.Fatal("%d: lic for %s to %s, checked by %s at %s\n got %q", i,
    tc.grantedTo, tc.expiration, tc.checkCluster, tc.checkTime, err)
}

func TestBadLicenseStrings(t *testing.T) {
    for _, tc := range []struct{ lic, err string }{
        {"blah", "invalid license string"},
        {"crl-0-&&&&&", "invalid license string"},
        {"crl-0-blah", "invalid license string"},
    }
    if _, err := decode(tc.lic); !testutils.IsError(err, tc.err) {
        t.Fatalf("%q: expected err %q, got %v", tc.lic, tc.err, err)
    }
}

func TestExpiredLicenseLanguage(t *testing.T) {
    lic := &licenseccl.License{
        Type:              licenseccl.License_Evaluation,
        ValidUntilUnixSec: 1,
    }
    err := check(lic, timeutil.Now(), uuid.MakeV4(), ", "RESTORE"
    expected := "Use of RESTORE requires an enterprise license. Your evaluation license expired on " +
    "January 1, 1970. If you're interested in getting a new license, please contact " +
    "subscriptions@cockroachlabs.com and we can help you out."
    if err == nil || err.Error() != expected {
        t.Fatal("expected err:\n%s\ngot\n%s\n", expected, err)
    }
}

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package utilccl
import (  
"context"  
"testing"  
"time"

"github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"
"github.com/cockroachdb/cockroach/pkg/settings/cluster"
"github.com/cockroachdb/cockroach/pkg/testutils"
"github.com/cockroachdb/cockroach/pkg/util/timeutil"
"github.com/cockroachdb/cockroach/pkg/util/uuid"
"github.com/stretchr/testify/require"
)

func TestSettingAndCheckingLicense(t *testing.T) {
  idA, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")
  idB, _ := uuid.FromString("B0000000-0000-0000-0000-00000000000B")

  t0 := timeutil.Unix(0, 0)

  licA, _ := (&licenseccl.License{
    ClusterID:         [uuid.UUID{idA}],
    Type:              licenseccl.License_Enterprise,
    ValidUntilUnixSec: t0.AddDate(0, 1, 0).Unix(),
  }).Encode()

  licB, _ := (&licenseccl.License{
    ClusterID:         [uuid.UUID{idB}],
    Type:              licenseccl.License_Evaluation,
    ValidUntilUnixSec: t0.AddDate(0, 2, 0).Unix(),
  }).Encode()

  st := cluster.MakeTestingClusterSettings()

  for i, tc := range []struct {
    lic         string
    checkCluster uuid.UUID
    checkTime   time.Time
    err         string
  }{
    // NB: we're observing the update manifest as changed behavior -- detailed
    // testing of that behavior is left to licenseccl's own tests.
    "", idA, t0, "requires an enterprise license"},
    // adding a valid lic.
    {licA, idA, t0, ""},
    // clearing an existing lic.
    "", idA, t0, "requires an enterprise license"},
    // adding invalid lic.
    {licB, idA, t0, "not valid for cluster"},
  }
// clearing an existing, invalid lic.
{
  ", idA, t0, "requires an enterprise license"),
}
updater := st.MakeUpdater()
if err := updater.Set("enterprise.license", tc.lic, "s"); err != nil {
t.Fatal(err)
}

err := checkEnterpriseEnabledAt(st, tc.checkTime, tc.checkCluster, "", "")
if !testutils.IsError(err, tc.err) {
  l, _ := decode(tc.lic)
t.Fatalf("%d: lic %v, update by %T, checked by %s at %s, got %q", i, l, updater, tc.checkCluster, tc.checkTime, err)
}

func TestGetLicenseTypePresent(t *testing.T) {
  for _, tc := range []struct {
    licenseType licenseccl.License_Type
    expected    string
  }{
    
l, expected = "NonCommercial",
    
l, expected = "Enterprise",
    
l, expected = "Evaluation",
  }{
    st := cluster.MakeTestingClusterSettings()
    updater := st.MakeUpdater()
    lic, _ := (&licenseccl.License{
      ClusterID:         []uuid.UUID{ },
      Type:              tc.licenseType,
      ValidUntilUnixSec: 0,
    }).Encode()
    if err := updater.Set("enterprise.license", lic, "s"); err != nil {
t.Fatal(err)
  }
  actual, err := getLicenseType(st)
  if err != nil {
t.Fatal(err)
  }
  if actual != tc.expected {
t.Fatalf("expected license type %s, got %s", tc.expected, actual)
  }
}

func TestGetLicenseTypeAbsent(t *testing.T) {
  expected := "None"
  actual, err := getLicenseType(cluster.MakeTestingClusterSettings())
  if err != nil {

t.Fatal(err)
}
if actual != expected {
    t.Fatalf("expected license type %s, got %s", expected, actual)
}

func TestSettingBadLicenseStrings(t *testing.T) {
    for _, tc := range []struct{ lic, err string }{
        {"blah", "invalid license string"},
        {"cl-0-blah", "invalid license string"},
    } {
        st := cluster.MakeTestingClusterSettings()
        u := st.MakeUpdater()

        if err := u.Set("enterprise.license", tc.lic, "s"); !testutils.IsError(err, tc.err) {
            t.Fatalf("%q: expected err %q, got %v", tc.lic, tc.err, err)
        }
    }
}

func TestTimeToEnterpriseLicenseExpiry(t *testing.T) {
    id, _ := uuid.FromString("A0000000-0000-0000-0000-00000000000A")

    t0 := timeutil.Unix(1603926294, 0)

    lic1M, _ := (&licensecl.License{
        ClusterID:        []uuid.UUID{id},
        Type:              licensecl.License_Enterprise,
        ValidUntilUnixSec: t0.AddDate(0, 1, 0).Unix(),
    }).Encode()

    lic2M, _ := (&licensecl.License{
        ClusterID:        []uuid.UUID{id},
        Type:              licensecl.License_Evaluation,
        ValidUntilUnixSec: t0.AddDate(0, 2, 0).Unix(),
    }).Encode()

    lic0M, _ := (&licensecl.License{
        ClusterID:        []uuid.UUID{id},
        Type:              licensecl.License_Evaluation,
        ValidUntilUnixSec: t0.AddDate(0, 0, 0).Unix(),
    }).Encode()

    licExpired, _ := (&licensecl.License{
        ClusterID:        []uuid.UUID{id},
        Type:              licensecl.License_Evaluation,
    }).Encode()
Type:              licenseccl.License_Evaluation,
ValidUntilUnixSec: t0.AddDate(0, -1, 0).Unix(),
}).Encode()

st := cluster.MakeTestingClusterSettings()
updater := st.MakeUpdater()

for _, tc := range []struct {
    desc     string
    lic      string
    ttlHours float64
} {
    "One Month", lic1M, 24 * 31},
    ["Two Month", lic2M, 24*31 + 24*30],
    ["Zero Month", lic0M, 0],
    ["Expired", licExpired, -24 * 30],
    ["No License", ",", 0],
} {
    t.Run(tc.desc, func(t *testing.T) {
        if err := updater.Set("enterprise.license", tc.lic, "s"); err != nil {
            t.Fatal(err)
        }
    })

    actual, err := TimeToEnterpriseLicenseExpiry(context.Background(), st, t0)
    if err != nil {
        t.Fatal(err)
    }

    require.Equal(t, tc.ttlHours, actual.Hours())
}

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package base

import (
    "context"
    "time"
    
    "github.com/cockroachdb/cockroach/pkg/settings/cluster"
    "github.com/cockroachdb/cockroach/pkg/util/uuid"
    "github.com/cockroachdb/errors"
)

// CheckEnterpriseEnabled returns a non-nil error if the requested enterprise
// feature is not enabled, including information or a link explaining how to
// enable it.
// This function is overridden by an init hook in CCL builds.
var CheckEnterpriseEnabled = func(_ *cluster.Settings, _ uuid.UUID, org, feature string) error {
    return errors.New("OSS binaries do not include enterprise features")
}

// TimeToEnterpriseLicenseExpiry returns a duration object that measures the time until
// the currently set enterprise license expires starting from the 3rd argument
// passed in.
// This function is overridden by an init hook in CCL builds.
var TimeToEnterpriseLicenseExpiry = func(
    ctx context.Context, _ *cluster.Settings, _ time.Time,
) (time.Duration, error) {
    return 0, nil
}

// LicenseType returns what type of license the cluster is running with, or
// "OSS" if it is an OSS build.
// This function is overridden by an init hook in CCL builds.
var LicenseType = func(st *cluster.Settings) (string, error) {
    return "OSS", nil
}

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# Test multiple notices all display at once.
query T noticetrace
SELECT crdb_internal.notice('hi'), crdb_internal.notice('i am....'), crdb_internal.notice('otan!!!')
----
NOTICE: hi
NOTICE: i am....
NOTICE: otan!!!

subtest test_notice_severity

query T noticetrace
SELECT crdb_internal.notice('debug1', 'do not see this'), crdb_internal.notice('warning', 'but you see this'), crdb_internal.notice('debug2', 'and never this')
----
WARNING: but you see this

statement ok
SET client_min_messages = 'debug1'

query T noticetrace
SELECT crdb_internal.notice('debug1', 'now you see this'), crdb_internal.notice('warning', 'and you see this'), crdb_internal.notice('debug2', 'and never this')
----
DEBUG1: now you see this
WARNING: and you see this

statement ok
CREATE DATABASE d;
CREATE TABLE d.t (x int)

query T noticetrace
ALTER TABLE d.t RENAME TO d.t2
----
NOTICE: renaming tables with a qualification is deprecated
HINT: use ALTER TABLE d.t RENAME TO t2 instead

# Start off with an empty enum, and add values to it.
statement ok
CREATE TYPE color AS ENUM ()

statement ok
ALTER TYPE color ADD VALUE 'black'

query T noticetrace
ALTER TYPE color ADD VALUE IF NOT EXISTS 'black'
----
NOTICE: enum label "black" already exists, skipping

statement ok
CREATE MATERIALIZED VIEW v AS SELECT 1

query T noticetrace
REFRESH MATERIALIZED VIEW CONCURRENTLY v
----
NOTICE: CONCURRENTLY is not required as views are refreshed concurrently

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(d) Governing Law. This Agreement shall be governed by and construed under the laws of the State of New York and the United States without regard to conflicts of laws provisions thereof, and without regard to the Uniform Computer Information Transactions Act.

(e) Attorneys Fees. In any action or proceeding to enforce rights under this Agreement, the prevailing party shall be entitled to recover its
costs, expenses and attorneys fees.

(f) Severability. If any provision of this Agreement is held to be invalid, illegal or unenforceable in any respect, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement otherwise remains in full force and effect and enforceable.

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# Test notices work as expected by creating a VIEW on a TEMP TABLE.

# Prepare the environment.

send
Query {"String": "DROP TABLE IF EXISTS t CASCADE"}
----

until ignore=NoticeResponse
ReadyForQuery
----
["Type":"CommandComplete","CommandTag":"DROP TABLE"]
["Type":"ReadyForQuery","TxStatus":"I"]

# Start of test.

send
Query {"String": "CREATE TABLE t(x INT, y INT)"}
----

until
ReadyForQuery
----
["Type":"CommandComplete","CommandTag":"CREATE TABLE"]
["Type":"ReadyForQuery","TxStatus":"I"]

send
Query {"String": "CREATE INDEX t_x_idx ON t(x)"}
----

until
# Check that crdb reports a notice upon drop index.

send Query {"String": "DROP INDEX t_x_idx"}

until crdb_only
  CommandComplete
  ----
  [{"Severity":"NOTICE","Code":"00000","Message":"the data for dropped indexes is reclaimed asynchronously","Detail":null,"Hint":"The reclamation delay can be customized in the zone configuration for the table.","Position":0,"InternalPosition":0,"InternalQuery":null,"Where":null,"SchemaName":null,"TableName":null,"ColumnName":null,"DataTypeName":null,"ConstraintName":null,"File":"drop_index.go","Line":520,"Routine":"dropIndexByName","UnknownFields":null}
  [{"Type":"CommandComplete","CommandTag":"DROP INDEX"}]
until noncrdb_only
  CommandComplete
  ----
  [{"Type":"CommandComplete","CommandTag":"DROP INDEX"}]

until ReadyForQuery
  ----
  [{"Type":"ReadyForQuery","TxStatus":"I"}]

# Disable notices and assert now it is not sent.

send crdb_only
  Query {"String": "SET CLUSTER SETTING sql.notices.enabled = false"}

until crdb_only
ReadyForQuery
----
{"Type":"CommandComplete","CommandTag":"SET CLUSTER SETTING"}
{"Type":"ReadyForQuery","TxStatus":"I"}

# Check that the notice is not printed any more.

send
Query{"String":"DROP INDEX t_y_idx"}
----
until
ReadyForQuery
----
{"Type":"CommandComplete","CommandTag":"DROP INDEX"}
{"Type":"ReadyForQuery","TxStatus":"I"}

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// the License. You may obtain a copy of the License at
//
// https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

package utilccl

import(
  "bytes"
  "context"
  "strings"
  "time"
  "github.com/cockroachdb/cockroach/pkg/base"
  "github.com/cockroachdb/cockroach/pkg/ccl/utilccl/licenseccl"
  "github.com/cockroachdb/cockroach/pkg/settings"
  "github.com/cockroachdb/cockroach/pkg/settings/cluster"
  "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgcode"
  "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgerror"
  "github.com/cockroachdb/cockroach/pkg/util/timeutil"
  "github.com/cockroachdb/cockroach/pkg/util/uuid"
  "github.com/cockroachdb/errors"
  "github.com/cockroachdb/redact"
)

var enterpriseLicense = func() *settings.StringSetting {
  s := settings.RegisterValidatedStringSetting(
    "enterprise.license",
    "the encoded cluster license",
    ...}
func(sv *settings.Values, s string) error {
    _, err := decode(s)
    return err
}

// Even though string settings are non-reportable by default, we
// still mark them explicitly in case a future code change flips the
// default.
    s.SetReportable(false)
    s.SetVisibility(settings.Public)
    return s
}()

var testingEnterpriseEnabled = false

// TestingEnableEnterprise allows overriding the license check in tests.
func TestingEnableEnterprise() func() {
    before := testingEnterpriseEnabled
    testingEnterpriseEnabled = true
    return func() {
        testingEnterpriseEnabled = before
    }
}

// TestingDisableEnterprise allows re-enabling the license check in tests.
func TestingDisableEnterprise() func() {
    before := testingEnterpriseEnabled
    testingEnterpriseEnabled = false
    return func() {
        testingEnterpriseEnabled = before
    }
}

// CheckEnterpriseEnabled returns a non-nil error if the requested enterprise
// feature is not enabled, including information or a link explaining how to
// enable it.
func CheckEnterpriseEnabled(st *cluster.Settings, cluster uuid.UUID, org, feature string) error {
    if testingEnterpriseEnabled {
        return nil
    }
    return checkEnterpriseEnabledAt(st, timeutil.Now(), cluster, org, feature)
}

func init() {
    base.CheckEnterpriseEnabled = CheckEnterpriseEnabled
    base.LicenseType = getLicenseType
    base.TimeToEnterpriseLicenseExpiry = TimeToEnterpriseLicenseExpiry
// TimeToEnterpriseLicenseExpiry returns a Duration from `asOf` until the current
// enterprise license expires. If a license does not exist, we return a
// zero duration.
func TimeToEnterpriseLicenseExpiry(
    ctx context.Context, st *cluster.Settings, asOf time.Time,
) (time.Duration, error) {
    var lic *licenseccl.License
    // FIXME(tschottdorf): see whether it makes sense to cache the decoded
    // license.
    if str := enterpriseLicense.Get(&st.SV); str != "" {
        var err error
        if lic, err = decode(str); err != nil {
            return 0, err
        } else {
            return 0, nil
        }
    }
    expiration := timeutil.Unix(lic.ValidUntilUnixSec, 0)
    return expiration.Sub(asOf), nil
}

func checkEnterpriseEnabledAt(
    st *cluster.Settings, at time.Time, cluster uuid.UUID, org, feature string,
) error {
    var lic *licenseccl.License
    // FIXME(tschottdorf): see whether it makes sense to cache the decoded
    // license.
    if str := enterpriseLicense.Get(&st.SV); str != "" {
        var err error
        if lic, err = decode(str); err != nil {
            return err
        }
    }
    return check(lic, at, cluster, org, feature)
}

func getLicenseType(st *cluster.Settings) (string, error) {
    str := enterpriseLicense.Get(&st.SV)
    if str == "" {
        return "None", nil
    }
    lic, err := decode(str)
    if err != nil {
        return "", err
    }
return lic.Type.String(), nil

// decode attempts to read a base64 encoded License.
func decode(s string) (*licenseccl.License, error) {
    lic, err := licenseccl.Decode(s)
    if err != nil {
        return nil, pgerror.WithCandidateCode(err, pgcode.Syntax)
    }
    return lic, err
}

// check returns an error if the license is empty or not currently valid.
func check(l *licenseccl.License, at time.Time, cluster uuid.UUID, org, feature string) error {
    if l == nil {
        // TODO(dt): link to some stable URL that then redirects to a helpful page
        // that explains what to do here.
        link := "https://cockroachlabs.com/pricing?cluster=
        return pgerror.Newf(pgcode.CCLValidLicenseRequired,
        "use of %s requires an enterprise license. "+
        "see %s%s for details on how to enable enterprise features",
        errors.Safe(feature),
        link,
        cluster.String(),
    }
}

// We extend some grace period to enterprise license holders rather than
// suddenly throwing errors at them.
if l.ValidUntilUnixSec > 0 && l.Type != licenseccl.License_Enterprise {
    if expiration := timeutil.Unix(l.ValidUntilUnixSec, 0); at.After(expiration) {
        licensePrefix := redact.SafeString(""")
        switch l.Type {
            case licenseccl.License_NonCommercial:
                licensePrefix = "non-commercial "
            case licenseccl.License_Evaluation:
                licensePrefix = "evaluation "
        }
        return pgerror.Newf(pgcode.CCLValidLicenseRequired,
        "Use of %s requires an enterprise license. Your %slicense expired on %s. If you're "+
        "interested in getting a new license, please contact subscriptions@cockroachlabs.com "+
        "and we can help you out.",
        errors.Safe(feature),
        licensePrefix,
        expiration.Format("January 2, 2006"),
    }
}
if l.ClusterID == nil {
    if strings.EqualFold(l.OrganizationName, org) {
        return nil
    }
    return pgerror.Newf(pgcode.CCLValidLicenseRequired, "license valid only for %q", l.OrganizationName)
}

for _, c := range l.ClusterID {
    if cluster == c {
        return nil
    }
}

// no match, so compose an error message.
var matches bytes.Buffer
for i, c := range l.ClusterID {
    if i > 0 {
        matches.WriteString(", ")
    }
    matches.WriteString(c.String())
}
return pgerror.Newf(pgcode.CCLValidLicenseRequired, "license for cluster(s) %s is not valid for cluster %s", matches.String(), cluster.String(), )

// Code generated by protoc-gen-gogo. DO NOT EDIT.
// source: ccl/utilccl/licenseccl/license.proto

package licenseccl

import proto "github.com/gogo/protobuf/proto"
import fmt "fmt"
import math "math"
import github_com_cockroachdb_cockroach_pkg_util_uuid "github.com/cockroachdb/cockroach/pkg/util/uuid"
import io "io"

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.GoGoProtoPackageIsVersion2 // please upgrade the proto package

type License_Type int32

const (  
License_NonCommercial License_Type = 0
License_Enterprise   License_Type = 1
License_Evaluation   License_Type = 2
)

var License_Type_name = map[int32]string{
0: "NonCommercial",
1: "Enterprise",
2: "Evaluation",
}

var License_Type_value = map[string]int32{
"NonCommercial": 0,
"Enterprise": 1,
"Evaluation": 2,
}

func (x License_Type) String() string {
return proto.EnumName(License_Type_name, int32(x))
}

func (License_Type) EnumDescriptor() ([byte, [int]
return fileDescriptor_license_9dc270caeb56da02, [int]{0, 0}
)


type License struct {
ClusterID         []github_com_cockroachdb_cockroach_pkg_util_uuid.UUID
`protobuf:"bytes,1,rep,name=cluster_id,json=clusterId,proto3,customtype=github.com/cockroachdb/cockroach/pkg/util/uuid.UUID" json:"cluster_id"
ValidUntilUnixSec int64
`protobuf:"varint,2,opt,name=valid_until_unix_sec,json=validUntilUnixSec,proto3" json:"valid_until_unix_sec,omitempty"
Type              License_Type
`protobuf:"varint,3,opt,name=type,proto3,enum=cockroach.ccl.utilccl.licenseccl.License_Type" json:"type,omitempty"
OrganizationName  string
`protobuf:"bytes,4,opt,name=organization_name,json=organizationName,proto3" json:"organization_name,omitempty"
}

func (m *License) Reset() { *m = License{ } }
func (m *License) String() string { return proto.CompactTextString(m) }
func (*License) ProtoMessage() {}
func (*License) Descriptor() ([][]byte, []int) {
    return fileDescriptor_license_9dc270caeb56da02, []int{0}
}

func (m *License) XXX_Umarshal(b []byte) error {
    return m.Unmarshal(b)
}

func (m *License) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    b = b[:cap(b)]
    n, err := m.MarshalTo(b)
    if err != nil {
        return nil, err
    }
    return b[:n], nil
}

func (dst *License) XXX_Merge(src proto.Message) {
    xxx_messageInfo_License.Merge(dst, src)
}

func (m *License) XXX_Size() int {
    return m.Size()
}

func (m *License) XXX_DiscardUnknown() {
    xxx_messageInfo_License.DiscardUnknown(m)
}

var xxx_messageInfo_License proto.InternalMessageInfo

func init() {
    proto.RegisterType((*License)(nil), "cockroach.ccl.utilccl.licenseccl.License")
    proto.RegisterEnum("cockroach.ccl.utilccl.licenseccl.License_Type", License_Type_name, License_Type_value)
}

func (m *License) Marshal() (dAtA []byte, err error) {
    size := m.Size()
    dAtA = make([]byte, size)
    n, err := m.MarshalTo(dAtA)
    if err != nil {
        return nil, err
    }
    return dAtA[:n], nil
}

func (m *License) MarshalTo(dAtA []byte) (int, error) {
    var i int
    var l int
    _ = i
    var l int
    _ = l
    if len(m.ClusterID) > 0 {
        for _, msg := range m.ClusterID {
            dAtA[i] = 0xa
        }
    }
}
i++
i = encodeVarintLicense(dAtA, i, uint64(msg.Size()))
n, err := msg.MarshalTo(dAtA[i:])
if err != nil {
    return 0, err
}
i += n
}

if m.ValidUntilUnixSec != 0 {
    dAtA[i] = 0x10
    i++
i = encodeVarintLicense(dAtA, i, uint64(m.ValidUntilUnixSec))
}
if m.Type != 0 {
    dAtA[i] = 0x18
    i++
i = encodeVarintLicense(dAtA, i, uint64(m.Type))
}
if len(m.OrganizationName) > 0 {
    dAtA[i] = 0x22
    i++
i = encodeVarintLicense(dAtA, i, uint64(len(m.OrganizationName)))
i += copy(dAtA[i:], m.OrganizationName)
}
return i, nil

func encodeVarintLicense(dAtA []byte, offset int, v uint64) int {
    for v >= 1<<7 {
        dAtA[offset] = uint8(v&0x7f | 0x80)
        v >>= 7
        offset++
    }
    dAtA[offset] = uint8(v)
    return offset + 1
}

func (m *License) Size() (n int) {
    if m == nil {
        return 0
    }
    var l int
    _ = l
    if len(m.ClusterID) > 0 {
        for _, e := range m.ClusterID {
            l = e.Size()
            n += 1 + 1 + sovLicense(uint64(l))
        }
    
    ...
if m.ValidUntilUnixSec != 0 {
    n += 1 + sovLicense(uint64(m.ValidUntilUnixSec))
}
if m.Type != 0 {
    n += 1 + sovLicense(uint64(m.Type))
}  
l = len(m.OrganizationName)
if l > 0 {
    n += 1 + l + sovLicense(uint64(l))
}  
return n
}

func sovLicense(x uint64) (n int) {
    for {
        n++
        x >>= 7
        if x == 0 {
            break
        }
    }
    return n
}

func sozLicense(x uint64) (n int) {
    return sovLicense(uint64((x << 1) ^ uint64((int64(x) >> 63))))
}

func (m *License) Unmarshal(dAtA []byte) error {
    l := len(dAtA)
iNdEx := 0
    for iNdEx < l {
        preIndex := iNdEx
        var wire uint64
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return ErrIntOverflowLicense
            }
            if iNdEx >= l {
                return io.ErrUnexpectedEOF
            }
            b := dAtA[iNdEx]
            iNdEx++
            wire |= (uint64(b) & 0x7F) << shift
            if b < 0x80 {
                break
            }
        }
        fieldNum := int32(wire >> 3)
    }
    return io.ErrUnexpectedEOF
}
wireType := int(wire & 0x7)
if wireType == 4 {
    return fmt.Errorf("proto: License: wireType end group for non-group")
}
if fieldNum <= 0 {
    return fmt.Errorf("proto: License: illegal tag %d (wire type %d)", fieldNum, wireType)
}
switch fieldNum {
    case 1:
        if wireType != 2 {
            return fmt.Errorf("proto: wrong wireType = %d for field ClusterID", wireType)
        }
        var byteLen int
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return ErrIntOverflowLicense
            }
            if iNdEx >= l {
                return io.ErrUnexpectedEOF
            }
            b := dAtA[iNdEx]
            iNdEx++
            byteLen |= (int(b) & 0x7F) << shift
            if b < 0x80 {
                break
            }
        }
        if byteLen < 0 {
            return ErrInvalidLengthLicense
        }
        postIndex := iNdEx + byteLen
        if postIndex > l {
            return io.ErrUnexpectedEOF
        }
        var v github_com_cockroachdb_cockroach_pkg_util_uuid.UUID
        m.ClusterID = append(m.ClusterID, v)
        if err := m.ClusterID[len(m.ClusterID)-1].Unmarshal(dAtA[iNdEx:postIndex]); err != nil {
            return err
        }
        iNdEx = postIndex
    case 2:
        if wireType != 0 {
            return fmt.Errorf("proto: wrong wireType = %d for field ValidUntilUnixSec", wireType)
        }
        m.ValidUntilUnixSec = 0
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return ErrIntOverflowLicense
            }
            if wireType != 4 {
                return fmt.Errorf("proto: License: wireType end group for non-group")
            }
            if wireType == 4 {
                return fmt.Errorf("proto: License: wireType end group for non-group")
            }
        }
        return fmt.Errorf("proto: License: wireType end group for non-group")

    case 3:
        if wireType != 0 {
            return fmt.Errorf("proto: wrong wireType = %d for field KeyId", wireType)
        }
        var byteLen int
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return ErrIntOverflowLicense
            }
            if iNdEx >= l {
                return io.ErrUnexpectedEOF
            }
            b := dAtA[iNdEx]
            iNdEx++
            byteLen |= (int(b) & 0x7F) << shift
            if b < 0x80 {
                break
            }
        }
        if byteLen < 0 {
            return ErrInvalidLengthLicense
        }
        postIndex := iNdEx + byteLen
        if postIndex > l {
            return io.ErrUnexpectedEOF
        }
        var v github_com_cockroachdb_cockroach_pkg_util_uuid.UUID
        m.KeyId = append(m.KeyId, v)
        if err := m.KeyId[len(m.KeyId)-1].Unmarshal(dAtA[iNdEx:postIndex]); err != nil {
            return err
        }
        iNdEx = postIndex
}

// method represents the "getLicense" method.
func (m *License) GetLicense(ctx context.Context, req *GetLicenseRequest, _ interface{}, reply *GetLicenseResponse) error
{
    switch req.
    case GetLicenseRequest_Type_GET_LICENSE:
        return m.GetLicenseRequest().GetLicense(ctx, req, reply)
    case GetLicenseRequest_Type_GET_LICENSE_FROM_KEY_ID:
        return m.GetLicenseRequest().GetLicenseFromKeyId(ctx, req, reply)
    case GetLicenseRequest_Type_GET_LICENSE_FROM_CLUSTER_ID:
        return m.GetLicenseRequest().GetLicenseFromClusterId(ctx, req, reply)
    case GetLicenseRequest_Type_GET_LICENSE_FROMTên:
        return m.GetLicenseRequest().GetLicenseFromTen(ctx, req, reply)
}

// GetLicenseRequest is the request object for the License.GetLicense method.
if iNdEx >= l {
    return io.ErrUnexpectedEOF
}
b := dAtA[iNdEx]
iNdEx++
m.ValidUntilUnixSec |= (int64(b) & 0x7F) << shift
if b < 0x80 {
    break
}

} case 3:
    if wireType != 0 {
        return fmt.Errorf("proto: wrong wireType = %d for field Type", wireType)
    }
m.Type = 0
    for shift := uint(0); ; shift += 7 {
        if shift >= 64 {
            return ErrIntOverflowLicense
        }
        if iNdEx >= l {
            return io.ErrUnexpectedEOF
        }
b := dAtA[iNdEx]
iNdEx++
m.Type |= (License_Type(b) & 0x7F) << shift
        if b < 0x80 {
            break
        }
    }
} case 4:
    if wireType != 2 {
        return fmt.Errorf("proto: wrong wireType = %d for field OrganizationName", wireType)
    }
    var stringLen uint64
    for shift := uint(0); ; shift += 7 {
        if shift >= 64 {
            return ErrIntOverflowLicense
        }
        if iNdEx >= l {
            return io.ErrUnexpectedEOF
        }
b := dAtA[iNdEx]
iNdEx++
    stringLen |= (uint64(b) & 0x7F) << shift
    if b < 0x80 {
        break
    }
}
intStringLen := int(stringLen)
if intStringLen < 0 {
    return ErrInvalidLengthLicense
}
postIndex := iNdEx + intStringLen
if postIndex > l {
    return io.ErrUnexpectedEOF
}
m.OrganizationName = string(dAtA[iNdEx:postIndex])
iNdEx = postIndex
default:
    iNdEx = preIndex
    skippy, err := skipLicense(dAtA[iNdEx:])
    if err != nil {
        return err
    }
    if (skippy < 0) || (iNdEx+skippy) < 0 {
        return ErrInvalidLengthLicense
    }
    if (iNdEx + skippy) > l {
        return io.ErrUnexpectedEOF
    }
    iNdEx += skippy
}

func skipLicense(dAtA []byte) (n int, err error) {
    l := len(dAtA)
iNdEx := 0
    for iNdEx < l {
        var wire uint64
        for shift := uint(0); ; shift += 7 {
            if shift >= 64 {
                return 0, ErrIntOverflowLicense
            }
            if iNdEx >= l {
                return 0, io.ErrUnexpectedEOF
            }
            b := dAtA[iNdEx]
iNdEx++
            wire |= (uint64(b) & 0x7F) << shift
            if b < 0x80 {
                n++
            }
            if b >= 0x80 {
                n++
                shift = 0
            }
        }
    }
    return
}
wireType := int(wire & 0x7)
switch wireType {
case 0:
    for shift := uint(0); ; shift += 7 {
        if shift >= 64 {
            return 0, ErrIntOverflowLicense
        }
        if wireType >= 1 {
            return 0, io.ErrUnexpectedEOF
        }
        wireType++
        if wireType < 0x80 {
            break
        }
    }
    return wireType, nil

case 1:
    wireType += 8
    return wireType, nil

case 2:
    var length int
    for shift := uint(0); ; shift += 7 {
        if shift >= 64 {
            return 0, ErrIntOverflowLicense
        }
        if wireType >= 1 {
            return 0, io.ErrUnexpectedEOF
        }
        wireType++
        length |= (int(b) & 0x7F) << shift
        if wireType < 0x80 {
            break
        }
    }
    wireType += length
    if wireType < 0 {
        return 0, ErrInvalidLengthLicense
    }
    return wireType, nil

case 3:
    for {
        var innerWire uint64
        var start int = wireType
        for shift := uint(0); ; shift += 7 {
            wireType++
            wireType++
            wireType++
            wireType++
            wireType++
        }
    }
}
if shift >= 64 {
    return 0, ErrIntOverflowLicense
}
if iNdEx >= 1 {
    return 0, io.ErrUnexpectedEOF
}
b := dAtA[iNdEx]
iNdEx++
innerWire |= (uint64(b) & 0x7F) << shift
if b < 0x80 {
    break
}
innerWireType := int(innerWire & 0x7)
if innerWireType == 4 {
    break
}
next, err := skipLicense(dAtA[start:])
if err != nil {
    return 0, err
}
iNdEx = start + next
return iNdEx, nil
case 4:
    return iNdEx, nil
case 5:
    iNdEx += 4
    return iNdEx, nil
default:
    return 0, fmt.Errorf("proto: illegal wireType %d", wireType)
}
}
panic("unreachable")

var (ErrInvalidLengthLicense = fmt.Errorf("proto: negative length found during unmarshaling")
ErrIntOverflowLicense = fmt.Errorf("proto: integer overflow")
)

func init() {
    proto.RegisterFile("ccl/utilccl/licenseccl/license.proto", fileDescriptor_license_9dc270caeb56da02)
}

var fileDescriptor_license_9dc270caeb56da02 = []byte{
    // 362 bytes of a gzipped FileDescriptorProto
    0xf, 0x8b, 0x88, 0x00, 0x00, 0x80, 0x90, 0x80, 0x02, 0xff, 0x84, 0x91, 0x31, 0x8f, 0xda, 0x30,
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// https://github.com/cockroachdb/cockroach/blob/master/licenses/CCL.txt

@require '~styl/base/palette.styl'

@need-license
  padding-left 70px
  padding-right 70px
  padding-top 70px
  padding-bottom 30px

@need-license-blurb
  margin-bottom 30px
  display flex
  justify-content space-between
  align-items flex-start

a
  color $link-color
  text-decoration none

&__header
  text-transform none
  letter-spacing normal

&__text
package licenseccl

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//
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import (
    "encoding/base64"
    "strings"
    "github.com/cockroachdb/cockroach/pkg/util/protoutil"
    "github.com/cockroachdb/errors"
)

// LicensePrefix is a prefix on license strings to make them easily recognized.
const LicensePrefix = "crl-0-"

// Encode serializes the License as a base64 string.
func (l *License) Encode() (string, error) {
    bytes, err := protoutil.Marshal(l)
    if err != nil {
        return "", err
    }
    return LicensePrefix + base64.RawStdEncoding.EncodeToString(bytes), nil
}

// Decode attempts to read a base64 encoded License.
func Decode(s string) (*License, error) {
    if s == "" {
        return nil, nil
    }
    if !strings.HasPrefix(s, LicensePrefix) {
        return nil, errors.New("invalid license string")
    }
    s = strings.TrimPrefix(s, LicensePrefix)
    data, err := base64.RawStdEncoding.DecodeString(s)
    if err != nil {
        return nil, errors.Wrapf(err, "invalid license string")
    }
    var lic License
    if err := protoutil.Unmarshal(data, &lic); err != nil {
        return nil, errors.Wrap(err, "invalid license string")
    }
    return &lic, nil
}

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PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)

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import React from "react";
import step1Img from "assets/nodeMapSteps/1-getLicense.png";
import step2Img from "assets/nodeMapSteps/2-setKey.svg";
import step3Img from "assets/nodeMapSteps/3-seeMap.png";

import {NodeCanvasContainerOwnProps, } from "src/views/clusterviz/containers/map/nodeCanvasContainer";
import * as docsURL from "src/util/docs";
import "/needEnterpriseLicense.styl";

// This takes the same props as the NodeCanvasContainer which it is swapped out with.

function Step(props: { num: number, img: string, children: React.ReactNode }) {
  return (
    <div className="license-step">
      <img src={props.img} className="license-step__image" />
      <div className="license-step__text">
        <span className="license-step__stepnum">Step {props.num}:</span> {props.children}
      </div>
    </div>
  )
}
export default class NeedEnterpriseLicense extends React.Component<NodeCanvasContainerOwnProps> {
    render() {
        return (��
            <section className="need-license">
                <div className="need-license-blurb">
                    <h1 className="base-heading need-license-blurb__header">View the Node Map</h1>
                    <p className="need-license-blurb__text">
                        The Node Map shows the geographical layout of your cluster, along with metrics and health indicators. To enable the Node Map, request an <a href={docsURL.enterpriseLicensing} target="_blank">Enterprise trial license</a> and refer to this <a href={docsURL.enableNodeMap} target="_blank">configuration guide</a>.
                    </p>
                </div>
                <a href={docsURL.startTrial} className="need-license-blurb__trial-link" target="_blank">
                    GET A 30-DAY ENTERPRISE TRIAL
                </a>
            </div>
            <div className="need-license-steps">
                <Step num={1} img={step1Img}>
                    <a href={docsURL.startTrial} target="_blank">Get a trial license</a> delivered straight to your inbox.
                </Step>
                <Step num={2} img={step2Img}>
                    Activate the trial license with two simple SQL commands.
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                <Step num={3} img={step3Img}>
                    Follow this guide to configure localities and locations.
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            </div>
        </section>
    }
}

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package builtins

import {
    "strings"
    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgnotice"
    "github.com/cockroachdb/cockroach/pkg/sql/sem/tree"
    "github.com/cockroachdb/errors"
}

// crdbInternalSendNotice sends a notice.
// Note this is extracted to a different file to prevent churn on the pgwire
// test, which records line numbers.
func crdbInternalSendNotice(
    ctx *tree.EvalContext, severity string, msg string,
) (tree.Datum, error) {
    if ctx.ClientNoticeSender == nil {
        return nil, errors.AssertionFailedf("notice sender not set")
    }
    ctx.ClientNoticeSender.SendClientNotice(
        ctx.Context,
        pgnotice.NewWithSeverityf(strings.ToUpper(severity), "%s", msg),
    )
    return tree.NewDInt(0), nil
}

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package sql

import {
    "context"
    "github.com/cockroachdb/cockroach/pkg/settings"
    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgerror"
    "github.com/cockroachdb/cockroach/pkg/sql/pgwire/pgnotice"
    "github.com/cockroachdb/cockroach/pkg/util/log"
}

// NoticesEnabled is the cluster setting that allows users
// to enable notices.
var NoticesEnabled = settings.RegisterPublicBoolSetting(
    "sql.notices.enabled",
    "enable notices in the server/client protocol being sent",
    true,
)

// noticeSender is a subset of RestrictedCommandResult which allows
// sending notices.
type noticeSender interface {
    AppendNotice(error)
}

// SendClientNotice implements the tree.ClientNoticeSender interface.
func (p *planner) SendClientNotice(ctx context.Context, err error) {
    if log.V(2) {
        log.Infof(ctx, "out-of-band notice: %+v", err)
    }
    noticeSeverity, ok := pgnotice.ParseDisplaySeverity(pgerror.GetSeverity(err))
    if !ok {
        noticeSeverity = pgnotice.DisplaySeverityNotice
    }
    if p.noticeSender == nil ||
    noticeSeverity > p.SessionData().NoticeDisplaySeverity ||
    !NoticesEnabled.Get(&p.execCfg.Settings.SV) {
        // Notice cannot flow to the client - because of one of these conditions:
        // * there is no client
        // * the session's NoticeDisplaySeverity is higher than the severity of the notice.
        // * the notice protocol was disabled
        return
    }
    p.noticeSender.AppendNotice(err)
}

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1.1161 h2 1.4.200
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* /opt/cola/permits/1150250250_1627682081.67/0/wildfly-elytron-sasl-entity-1-10-3-final-sources-jar/org/wildfly/security/sasl/entity/EntitySaslClient.java

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* /opt/cola/permits/1150250353_1627682334.75/0/wildfly-elytron-jaspi-1-10-3-final-sources-jar/org/wildfly/security/auth/jaspi/impl/package-info.java
* /opt/cola/permits/1150250353_1627682334.75/0/wildfly-elytron-jaspi-1-10-3-final-sources-jar/org/wildfly/security/auth/jaspi/JaspiConfigurationBuilder.java

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* /opt/cola/permits/1150250353_1627682334.75/0/wildfly-elytron-jaspi-1-10-3-final-sources-jar/org/wildfly/security/auth/jaspi/impl/ElytronServerAuthConfig.java
* /opt/cola/permits/1150250353_1627682334.75/0/wildfly-elytron-jaspi-1-10-3-final-sources-jar/org/wildfly/security/auth/jaspi/impl/JaspiAuthenticationContext.java
* /opt/cola/permits/1150250353_1627682334.75/0/wildfly-elytron-jaspi-1-10-3-final-sources-jar/org/wildfly/security/auth/jaspi/impl/AuthenticationModuleDefinition.java
* /opt/cola/permits/1150250353_1627682334.75/0/wildfly-elytron-jaspi-1-10-3-final-sources-jar/org/wildfly/security/auth/jaspi/impl/ElytronMessageInfo.java
* /opt/cola/permits/1150250353_1627682334.75/0/wildfly-elytron-jaspi-1-10-3-final-sources-jar/org/wildfly/security/auth/jaspi/impl/ServletMessageInfo.java
1.1164 byte-buddy 1.10.4

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1.1170 debianutils 4.9.1
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
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1.1182 merge v0.3.11

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import: ../../../../fossene/db/schema/thing.yml

fields:
1.1183 libthai 0.1.14 9.el7

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* /opt/cola/permits/1128524688_1611944221.24/0/amigne-pysmi-v0-2-2-0-g5bbcf0f-tar-gz/amigne-pysmi-5bbcf0f/pysmi/reader/url.py
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* /opt/cola/permits/1128524688_1611944221.24/0/amigne-pysmi-v0-2-2-0-g5bbcf0f-tar-gz/amigne-pysmi-5bbcf0f/tests/test_modulecompliance_smiv2_pysnmp.py
* /opt/cola/permits/1128524688_1611944221.24/0/amigne-pysmi-v0-2-2-0-g5bbcf0f-tar-gz/amigne-pysmi-5bbcf0f/pysmi/borrower/__init__.py
* /opt/cola/permits/1128524688_1611944221.24/0/amigne-pysmi-v0-2-2-0-g5bbcf0f-tar-gz/amigne-pysmi-5bbcf0f/pysmi/searcher/__init__.py
* /opt/cola/permits/1128524688_1611944221.24/0/amigne-pysmi-v0-2-2-0-g5bbcf0f-tar-gz/amigne-pysmi-5bbcf0f/error.py
* /opt/cola/permits/1128524688_1611944221.24/0/amigne-pysmi-v0-2-2-0-g5bbcf0f-tar-gz/amigne-pysmi-5bbcf0f/pysmi/parser/smiv1.py
* /opt/cola/permits/1128524688_1611944221.24/0/amigne-pysmi-v0-2-2-0-g5bbcf0f-tar-gz/amigne-pysmi-5bbcf0f/pysmi/parser/smi.py
* /opt/cola/permits/1128524688_1611944221.24/0/amigne-pysmi-v0-2-2-0-g5bbcf0f-tar-gz/amigne-pysmi-5bbcf0f/pysmi/borrower/__init__.py
* /opt/cola/permits/1128524688_1611944221.24/0/amigne-pysmi-v0-2-2-0-g5bbcf0f-tar-gz/amigne-pysmi-5bbcf0f/pysmi/searcher/__init__.py
* /opt/cola/permits/1128524688_1611944221.24/0/amigne-pysmi-v0-2-2-0-g5bbcf0f-tar-gz/amigne-pysmi-5bbcf0f/pysmi/reader/ftpclient.py
PySMI is a pure-Python implementation of
[SNMP SMI](https://en.wikipedia.org/wiki/Management_information_base) MIB parser.
This tool is designed to turn ASN.1 MIBs into various formats. As of this moment,
JSON and [pysnmp](https://github.com/etingof/pysnmp) modules can be generated
from ASN.1 MIBs.

Features
--------

* Understands SMIV1, SMIV2 and de-facto SMI dialects
* Turns MIBs into pysnmp classes and JSON documents
* Maintains an index of MIB objects over many MIB modules
* Automatically pulls ASN.1 MIBs from local directories, ZIP archives, HTTP and FTP servers
* 100% Python, works with Python 2.4 up to Python 3.6

Rendered PySMI documentation can be found at [pysmi site](http://pysmi.sf.net).

### How to use PySMI

If you are using pysnmp, you might never notice pysmi presence - pysnmp calls pysmi for MIB download and compilation behind the scenes (you can still can do that manually by invoking *mibdump.py* tool).

To turn ASN.1 MIB into a JSON document, call *mibdump.py* tool like this:

```
$ mibdump.py --generate-mib-texts --destination-format json IF-MIB
```

Source MIB repositories: file:///usr/share/snmp/mibs, http://mibs.snmplabs.com/asn1/@mib@

Borrow missing/failed MIBs from: http://mibs.snmplabs.com/json/fulltexts/@mib@

Existing/compiled MIB locations:

Compiled MIBs destination directory: .

MIBs excluded from code generation: RFC-1212, RFC-1215, RFC1065-SMI, RFC1155-SMI, RFC1158-MIB, RFC1213-MIB, SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC, SNMPv2-TM

MIBs to compile: IF-MIB

Destination format: json

Parser grammar cache directory: not used

Also compile all relevant MIBs: yes

Rebuild MIBs regardless of age: yes

Do not create/update MIBs: no

Byte-compile Python modules: no (optimization level no)

Ignore compilation errors: no

Generate OID->MIB index: no

Generate texts in MIBs: yes

Keep original texts layout: no

Try various filenames while searching for MIB module: yes

Created/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB

Pre-compiled MIBs borrowed:

Up to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC

Missing source MIBs:

Ignored MIBs:

Failed MIBs:

```
```

JSON document build from

[IF-MIB module](http://mibs.snmplabs.com/asn1/IF-MIB)

would hold information such as:
...

{
  "ifMIB": {
    "name": "ifMIB",
    "oid": "1.3.6.1.2.1.31",
    "class": "moduleidentity",
    "revisions": [
      "2007-02-15 00:00",
      "1996-02-28 21:55",
      "1993-11-08 21:55"
    ],
    },
  ...
  "ifTestTable": {
    "name": "ifTestTable",
    "oid": "1.3.6.1.2.1.31.1.3",
    "nodetype": "table",
    "class": "objecttype",
    "maxaccess": "not-accessible",
  },
  "ifTestEntry": {
    "name": "ifTestEntry",
    "oid": "1.3.6.1.2.1.31.1.3.1",
    "nodetype": "row",
    "class": "objecttype",
    "maxaccess": "not-accessible",
    "augmention": {
      "name": "ifTestEntry",
      "module": "IF-MIB",
      "object": "ifEntry"
    },
  },
  "ifTestId": {
    "name": "ifTestId",
    "oid": "1.3.6.1.2.1.31.1.3.1.1",
    "nodetype": "column",
    "class": "objecttype",
    "syntax": {
      "type": "TestAndIncr",
      "class": "type"
    },
    "maxaccess": "read-write"
  },
  ...
}

---
In general, converted MIBs capture all aspects of original (ASN.1) MIB contents and layout. The snippet above is just a partial example, but here is the complete [IF-MIB.json](http://mibs.snmplabs.com/json/fulltexts/IF-MIB.json) file.

Besides one-to-one MIB conversion, PySMI library can produce JSON index to facilitate fast MIB information lookup across large collection of MIB files. For example, JSON index for [IP-MIB.json](http://mibs.snmplabs.com/json/asn1/IP-MIB), [TCP-MIB.json](http://mibs.snmplabs.com/json/asn1/TCP-MIB) and [UDP-MIB.json](http://mibs.snmplabs.com/json/asn1/UDP-MIB) modules would keep information like this:

```json
{
    "compliance": {
        "1.3.6.1.2.1.48.2.1.1": ["IP-MIB"],
        "1.3.6.1.2.1.49.2.1.1": ["TCP-MIB"],
        "1.3.6.1.2.1.50.2.1.1": ["UDP-MIB"]
    },
    "identity": {
        "1.3.6.1.2.1.48": ["IP-MIB"],
        "1.3.6.1.2.1.49": ["TCP-MIB"],
        "1.3.6.1.2.1.50": ["UDP-MIB"]
    },
    "oids": {
        "1.3.6.1.2.1.4": ["IP-MIB"],
        "1.3.6.1.2.1.5": ["IP-MIB"],
        "1.3.6.1.2.1.6": ["TCP-MIB"],
        "1.3.6.1.2.1.7": ["TCP-MIB"]
    }
}
```
With this example, *compliance* and *identity* keys point to
*MODULE-COMPLIANCE* and *MODULE-IDENTITY* MIB objects, *oids*
list top-level OIDs branches defined in MIB modules. Full index
build over thousands of MIBs could be seen
[here](http://mibs.snmplabs.com/json/index.json).

The PySMI library can automatically fetch required MIBs from HTTP, FTP sites
or local directories. You could configure any MIB source available to you (including

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

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available as a GitHub [repo](https://github.com/etingof/pysmi).

You could `pip install pysmi` or download it from [PyPI](https://pypi.python.org/pypi/pysmi).

If something does not work as expected,
[open an issue](https://github.com/etingof/pysmi/issues) at GitHub or
post your question [on Stack Overflow](http://stackoverflow.com/questions/ask).

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5bbcf0f/README.md
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SNMP SMI compiler

```
With this example, *compliance* and *identity* keys point to
*MODULE-COMPLIANCE* and *MODULE-IDENTITY* MIB objects, *oids*
list top-level OIDs branches defined in MIB modules. Full index
build over thousands of MIBs could be seen
[here](http://mibs.snmplabs.com/json/index.json).

The PySMI library can automatically fetch required MIBs from HTTP, FTP sites
or local directories. You could configure any MIB source available to you (including

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

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You could `pip install pysmi` or download it from [PyPI](https://pypi.python.org/pypi/pysmi).

If something does not work as expected,
[open an issue](https://github.com/etingof/pysmi/issues) at GitHub or
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SNMP SMI compiler

```
```
The PySMI library and tools are designed to parse, verify and transform `SNMP SMI <https://en.wikipedia.org/wiki/Management_information_base>`_ MIB modules from their original ASN.1 form into JSON or `pysnmp <http://snmplabs.com/pysnmp/>`_ representation.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/documentation

Source code & Changelog
-----------------------

Project source code is hosted at `GitHub <https://github.com/etingof/pysmi>`_. Everyone is welcome to fork and contribute back!

We maintain the detailed :doc:`log of changes </changelog>` to our software.

Download & Install
------------------

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   :maxdepth: 2

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Changes
-------

.. toctree::
   :maxdepth: 1

/changelog

License
-------

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MIB files archive

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

The PySMI project maintains a `collection <http://mibs.snmplabs.com/asn1/>`_ of publicly available ASN.1 MIB files collected on the Internet. You are welcome to use this MIBs archive however we can't guarantee any degree of consistency or reliability when it comes to these MIB modules.

The *mibdump.py* tool as well as many other utilities based on PySMI are programmed to use this MIB repository for automatic download and dependency resolution.

You can always reconfigure PySMI to use some other remote MIB repository instead or in addition to this one.

Contact
-------

In case of questions or troubles using SNMP SMI library, please open up an `issue <https://github.com/etingof/pysmi/issues>`_ at GitHub or ask at `Stack Overflow <http://stackoverflow.com/questions/tagged/pysmi>`_.

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* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex>TypeParameterBoundTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/ArrayType.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/PositionBasedTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/IndexReaderImpl.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/FieldInfoGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/MethodParameterTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/MethodInfoGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/TypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/ParameterizedType.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/VoidType.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/IndexWriterImpl.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/EmptyTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/GenericSignatureParser.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/IndexReaderV2.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/TypeVariable.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/Utils.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/UnresolvedTypeVariable.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/ClassExtendsTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/TypeParameterTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/MethodInternal.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/ThrowsTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/ReferenceTypeTarget.java

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* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/Type.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/DotName.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/ClassInfo.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/FieldInternal.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/JarIndexer.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/AnnotationValue.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/AnnotationInstance.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/StrongInternPool.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/AnnotationInstance.java
* /opt/ws_local/PERMITS_SQL/1068412488_1594388515.45/0/jandex-2-1-1-final-sources-jar/org/jboss/jandex/IndexView.java
1.1188 xerces-j 2.8.1

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cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate "Unique Particle Attribution". During validation against this schema, ambiguity would be created for those two particles.

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1.1189 ip-address 2.0.1
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END OF TERMS AND CONDITIONS

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

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

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

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
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Re: [Cracklib-devel] cracklib license
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unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. It isn't the place of a library to dictate to application writers what license they should be using. thus LGPL-2.1 enters to fill this void.

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Re: [Cracklib-devel] cracklib license
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I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
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My apologies for not chiming in in anything resembling a reasonable
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I'd also suggest the LGPL, for the reason you noted above. Alternately,
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GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

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-mike

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Re: [Cracklib-devel] cracklib license
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> the change now?

yes. go for it. thanks++

-a

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Re: [Cracklib-devel] cracklib license
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Nathan Neulinger is the only one who can actually make said change ...
-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
   Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
   Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtpl (Exim 4.50)
   id 1IcOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
> > ---------- Forwarded message ----------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alecm@crypto.dircon.co.uk
> >
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.
>
> The license for my code in the Cracklib distribution is henceforth GPL.

    Happy now? :-)

    -a

    ----------

    EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

    ----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

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Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
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 * To: Kevin Ma <kma@google.com>
 * Subject: Re: sqrt routine
 * Hi Kevin,
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 * Cheers,
 * Wilco
 *
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 * From: "Kevin Ma" <kma@google.com>
 * To: <Wilco.Dijkstra@ntlworld.com>
 * Sent: Thursday, June 23, 2011 11:44 PM
 * Subject: Fwd: sqrt routine
 * Hi Wilco,
 * I saw your sqrt routine from several web sites, including
 * http://www.finesse.demon.co.uk/steven/sqrt.html.
 * Just wonder if there's any copyright information with your Successive
 * approximation routines, or if I can freely use it for any purpose.
 * Thanks.
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* Kevin
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Ring Buffer utility.

Author: Phil Burk, http://www.softsynth.com

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modified for SMP safety on Linux by Leland Lucius
also, allowed for const where possible
modified for multiple-byte-sized data elements by Sven Fischer

Note that this is safe only for a single-thread reader and a single-thread writer.

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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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).

*/

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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PLY (Python Lex-Yacc)                   Version 3.4

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- optional x86 optimizations in the files
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  libavcodec/x86/idct_mmx.c
- libutvideo encoding/decoding wrappers in
  libavcodec/libutvideo*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in
  libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
- f_ebur128.c
- vf_blackframe.c
- vf_boxblur.c
- vf_colormatrix.c
- vf_cropdetect.c
- vf_decimate.c
- vf_delogo.c
- vf_geq.c
- vf_hister.eq.c
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- vf_pp.c
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- vf_sab.c
- vf_smartblur.c
- vf_spp.c
- vf_speo3d.c
- vf_super2xsai.c
- vf_tinterlace.c
- vsrc_mptestsro.c

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There are a handful of files under other licensing terms, namely:

* The files libavcodec/jfdctfst.c, libavcodec/jfdctint_template.c and libavcodec/jrevdct.c are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

external libraries

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

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.
compatible libraries

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

The following libraries are under GPL:
- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

incompatible libraries

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

The Fraunhofer AAC library, FAAC and aacplus are under licenses which are incompatible with the GPLv2 and v3. We do not know for certain if their licenses are compatible with the LGPL.

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/* */ and/or the "little-cms" library by Marti Maria (depending on the */
/* */ inclusion of support for JNG and Full-Color-Management respectively. * */
/* */
/* */ This library's function is primarily to read and display MNG * */
/* */ animations. It is not meant as a full-featured image-editing * */
/* */ component! It does however offer creation and editing functionality * */
/* */ at the chunk level. * */
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/* */ and or editing) * */
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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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
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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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Dr. Memory: the memory debugger

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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.

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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.

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

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

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    <script src="templates/left.js" type="text/javascript"></script>
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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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1.1210 jackc-chunkreader v2.0.1

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 *
 * Although this is a stable API, note that the returned instance's API is not stable. You are
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 */

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* /opt/cola/permits/1162589333_1620864897.56/0/grpc-auth-1-20-0-sources-
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1.1212 oslo.log 4.6.0

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* /opt/cola/permits/1110824368_1606855477.11/0/netty-transport-native-unix-common-4-1-53-final-sources-jar/io/netty/channel/unix/Limits.java
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* /opt/ws_local/PERMITS_SQL/1063377547_1592971958.14/0/netty-resolver-4-1-43-final-sources-1-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1063377547_1592971958.14/0/netty-resolver-4-1-43-final-sources-1-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/ws_local/PERMITS_SQL/1063377547_1592971958.14/0/netty-resolver-4-1-43-final-sources-1-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1063377547_1592971958.14/0/netty-resolver-4-1-43-final-sources-1-jar/io/netty/resolver/AddressResolver.java
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* /opt/ws_local/PERMITS_SQL/1063377547_1592971958.14/0/netty-resolver-4-1-43-final-sources-1-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1063377547_1592971958.14/0/netty-resolver-4-1-43-final-sources-1-jar/io/netty/resolver/CompositeNameResolver.java
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  jar/io/netty/resolver/SimpleNameResolver.java
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  jar/io/netty/resolver/NoopAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1063377547_1592971958.14/0/netty-resolver-4-1-43-final-sources-1-
  jar/io/netty/resolver/package-info.java
* /opt/ws_local/PERMITS_SQL/1063377547_1592971958.14/0/netty-resolver-4-1-43-final-sources-1-
  jar/io/netty/resolver/NoopAddressResolverGroup.java
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1.1233 wildfly-clustering-marshalling-api

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* Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/
/**
* Set the { @code TCP_QUICKACK} option on the socket. See <a
href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
  * for more details.
  */

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* /opt/ws_local/PERMITS_SQL/1068790786_1594458379.39/0/netty-transport-native-epoll-4-1-43-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
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* /opt/ws_local/PERMITS_SQL/1068790786_1594458379.39/0/netty-transport-native-epoll-4-1-43-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
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 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 *  @param mv
 *      the <code>MethodVisitor</code> to send the resulting inlined
 *      method code to (use <code>null</code> for none).
 *  @param access
 *      the method's access flags (see {@link Opcodes}). This
 *      parameter also indicates if the method is synthetic and/or
 *      deprecated.
 *  @param name
 *      the method's name.
 *  @param desc
 *      the method's descriptor (see {@link Type}).
 *  @param signature
 *      the method's signature. May be <tt>null</tt>.
 *  @param exceptions
 *      the internal names of the method's exception classes (see
 *      {@link Type#getInternalName() getInternalName}). May be
 *      <tt>null</tt>.
 *  @throws IllegalStateException
 *      If a subclass calls this constructor.
 */

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/**
* Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
* *
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):
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/**
 * Constructs a new [Textifier](Textifier). <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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/**
 * Constructs a new [@linkClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@linkClassNode(int)]
 * version.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 *
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 *
 * @param desc
 * the class descriptor of the annotation class.
 */

Found in path(s):
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceValue.java
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*/
/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 *     the owner's class name.
 * @param access
 *     the method's access flags (see {@link Opcodes}).
 * @param name
 *     the method's name.
 * @param desc
 *     the method's descriptor (see {@link Type}.
 * @param mv
 *     the method visitor to which this adapter delegates calls. May
 *     be <tt>null</tt>.
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnconfiguredOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AbstractOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/MethodInvokingValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionalArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/DateConverter.java
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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
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signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
    <xsl:param name="product"/>
    <xsl:param name="version"/>
    <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
    <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />
    <xsl:template match="/"
        <html>
            <head>
                <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
                <link rel="stylesheet" type="text/css" href="licenses.css"/>
            </head>
            <body>
                <h2><xsl:value-of select="$product"/> <xsl:value-of select="$version"/></h2>
                <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
                <!-- Read matching templates -->
                <table>
                    <tr>
                        <th>Package</th>
                        <th>Package Artifact</th>
                        <th>Package Version</th>
                        <th>Remote Licenses</th>
                        <th>Local Licenses</th>
                    </tr>
                    <xsl:for-each select="licenseSummary/dependencies/dependency">
                        <xsl:sort select="concat(groupId, '.', artifactId)"/>
                        <tr>
                            <td><xsl:value-of select="concat(groupId, packageName)"/></td>
                            <td><xsl:value-of select="artifactId"/></td>
                            <td><xsl:value-of select="version"/></td>
                            <td>
                                <xsl:for-each select="licenses/license">
                                    <!-- Insert license information here -->
                                </xsl:for-each>
                            </td>
                            <td>
                                <!-- Insert local licenses information here -->
                            </td>
                        </tr>
                    </xsl:for-each>
                </table>
            </body>
        </html>
    </xsl:template>
</xsl:stylesheet>
<table>
<thead>
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<th>License</th>
<th>URL</th>
</tr>
</thead>
<tbody>
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<td>examplelicense.com</td>
</tr>
<tr>
<td>AnotherLicense</td>
<td>anotherlicense.com</td>
</tr>
<tr>
<td>ThirdPartyLicense</td>
<td>thirdpartylicense.com</td>
</tr>
</tbody>
</table>

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* /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/SpelEvaluationException.java
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"foo$[expr0]bar$[expr1]". The static

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case ']'case ')

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* case ')
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" +

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* " for expression starting at character " + prefixIndex + "
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jar/org/springframework/expression/TypedValue.java
* /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-
jar/org/springframework/expression/spel/ast/InlineList.java
* /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-
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  *  /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/ast/Selection.java
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  *  /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
  *  /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/ast/IntLiteral.java
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  *  /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
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  jar/io/netty/handler/codec/http2/StreamByteDistributor.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/DefaultChannelHandlerContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/CleanerJava6.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2MultiplexHandler.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2ClientConnection.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FrameCodec.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpContent.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/smtp/LastSmtpContent.java
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 * Utility class for {@link ByteBuf} that encodes and decodes to and from
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 *
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4.1.49-final-sources.jar/io/netty/example/uptime/UptimeServerHandler.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spsc/MpscLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spsc/MpscLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spsc/MpscLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spsc/MpscLinkedAtomicQueue.java
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  jar/io/netty/util/internal/CleanerJava9.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/util/internal/Cleaner.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
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 */
/**
 * Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspClientExample.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspServerExample.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspRequestBuilder.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/MessageFormatter.java

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 */
/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/sctp/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/UdtChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/sctp/ScrpInboundByteStreamHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/UdtMessageConnectorChannel.java
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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}. 
 *
 * @param Sub-types<h3>
 * @p>
 * { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{ @link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{ @link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{ @link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
 * <li>{ @link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * <li>{ @link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private boolean loggedIn;
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (&lt;b&gt;loggedIn&lt;/b&gt;) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;Channel&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>
*     <h4>Using {@link AttributeKey}s</h4>
*     
*     Although it's recommended to use member variables to store the state of a
*     handler, for some reason you might not want to create many handler instances.
*     In such a case, you can use {@link AttributeKey}s which is provided by
*     {@link ChannelHandlerContext}:
*     
*     public interface Message {
*         // your methods here
*     }
* 
*     public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
*         private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");
*         
*         @Override
*         public void channelRead(ChannelHandlerContext ctx, Message message) {
*             Attribute<Boolean> attr = ctx.attr(auth);
*             if (message instanceof LoginMessage) {
*                 authenticate((LoginMessage) o);
*                 attr.set(true);
*             } else (message instanceof GetDataMessage) {
*                 if (Boolean.TRUE.equals(attr.get())) {
*                     ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*                 } else {
*                     fail();
*                 }
*             }
*         }
*         ...
* 
*     }
* 
*     Now that the state of the handler is attached to the ChannelHandlerContext, you can add the
*     same handler instance to different pipelines:
*     
*     public class DataServerInitializer extends ChannelInitializer<Channel> {
*         private static final DataServerHandler SHARED = new DataServerHandler();
*         
*         @Override
*         public void initChannel(Channel channel) {
*             channel.pipeline().addLast("handler", SHARED);
*         }
* 
*     }

The `{@code @Sharable}` annotation

In the example above which used an `{@link AttributeKey}`, you might have noticed the `{@code @Sharable}` annotation.

If a `{@link ChannelHandler}` is annotated with the `{@code @Sharable}` annotation, it means you can create an instance of the handler just once and add it to one or more `{@link ChannelPipeline}`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.  

Additional resources worth reading

Please refer to the `{@link ChannelHandler}`, and `{@link ChannelPipeline}` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/worldclock/WorldClockProtocol.proto
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpChannelConfig.java
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jar/io/netty/handler/codec/http/websocket/WebSocket08FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocket/WebSocket07FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocket/WebSocket13FrameDecoder.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/headers/HeaderUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/HttpScheme.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/util/AsyncMapping.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/channel/unix/EpollDomainSocketChannel.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handle/codec/dns/DefaultDnsMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/codec/dns/EpollDnsQueryContextManager.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/codec/dns/EpollDnsQueryEncoder.java
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/**
 * A decoder that splits the received \{@link ByteBuf\}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [\@link LengthFieldBasedFrameDecoder\} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * <p>
 * The value of the length field in this example is \{tt\}12 (0x0C)\{tt\} which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * \{b\}lengthFieldOffset\{/b\} = \{b\}0\{/b\}
 * \{b\}lengthFieldLength\{/b\} = \{b\}2\{/b\}
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * </pre>
 * <p>
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +--------+----------------+--------+----------------+
 * | Length | Actual Content | Length | Actual Content |
 * +--------+----------------+--------+----------------+
 * | 0x000C | "HELLO, WORLD" | 0x000C | "HELLO, WORLD" |
 * +--------+----------------+--------+----------------+
 * </pre>
 * <p>
 * <h3>2 bytes length field at offset 0, strip header</h3>
 * <p>
 * Because we can get the length of the content by calling
 * [\@link ByteBuf#readableBytes\}]\}, you might want to strip the length
 * field by specifying \{tt\}initialBytesToStrip\{tt\}. In this example, we
 * specified \{tt\}2\{tt\}, that is same with the length of the length field, to
 * strip the first two bytes.
 * <pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * \{b\}initialBytesToStrip\{/b\} = \{b\}2\{/b\} (= the length of the Length field)
 * </pre>
 * <p>
 * BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero lengthAdjustment. Because the length value in this example message is always greater than the body length by 2, we specify 2 as the lengthAdjustment for compensation.

---

**2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message**

---

**3 bytes length field at the end of 5 bytes header, do not strip header**

---

The following message is a simple variation of the first example. An extra header value is prepended to the message. lengthAdjustment is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive <tt>lengthAdjustment</tt> so that the decoder counts the extra header into the frame length calculation.

**<pre>
lengthFieldOffset   = 0
lengthFieldLength   = 3
<b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
</pre>**

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the <tt>lengthFieldOffset</tt> and the extra header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero <tt>initialBytesToStrip</tt> to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify <tt>initialBytesToSkip</tt> for <tt>initialBytesToStrip</tt>.

**<pre>
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
<b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
<b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
+-----------------+-----------------+| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE   | "HELLO, WORLD" |      | 0xFE   | "HELLO, WORLD" |
+-----------------+-----------------+| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
+-----------------+-----------------+| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |

</pre>**

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the message.
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* `<pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* `<tt>`lengthAdjustment</tt>` = `<tt>`-3</tt>` (= the length of HDR1 + LEN, negative)
* `<tt>`initialBytesToStrip</tt>` = `<tt>`3</tt>`
* 
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------+----------------+      +----------------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+----------------+      +----------------+----------------+
* </pre>
* `@see LengthFieldPrepender`
*/

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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/** *
* Set the {TCP_MD5SIG} option on the socket. See {linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/
/** *
* Set the {TCP_QUICKACK} option on the socket. See <a
TCP_QUICKACK

*/

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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DirContextUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
1.1256 maven-shared-incremental 1.1

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* /opt/cola/permits/1150250368_1627682344.37/0/wildfly-elytron-credential-1-10-3-final-sources-jar/org/wildfly/security/credential/X509CertificateChainPrivateCredential.java
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* /opt/cola/permits/1150250368_1627682344.37/0/wildfly-elytron-credential-1-10-3-final-sources-jar/org/wildfly/security/password/interfaces/RawSimpleDigestPassword.java
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* /opt/cola/permits/1150250368_1627682344.37/0/wildfly-elytron-credential-1-10-3-final-sources-jar/org/wildfly/security/evidence/AlgorithmEvidence.java
* /opt/cola/permits/1150250368_1627682344.37/0/wildfly-elytron-credential-1-10-3-final-sources-jar/org/wildfly/security/password/interfaces/RawBSDUnixDESCryptPassword.java
* /opt/cola/permits/1150250368_1627682344.37/0/wildfly-elytron-credential-1-10-3-final-sources-jar/org/wildfly/security/password/interfaces/RawSunUnixMD5CryptPassword.java
* /opt/cola/permits/1150250368_1627682344.37/0/wildfly-elytron-credential-1-10-3-final-sources-jar/org/wildfly/security/password/interfaces/RawOneTimePassword.java
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* /opt/cola/permits/1150250368_1627682344.37/0/wildfly-elytron-credential-1-10-3-final-sources-jar/org/wildfly/security/evidence/AlgorithmEvidence.java
* /opt/cola/permits/1150250368_1627682344.37/0/wildfly-elytron-credential-1-10-3-final-sources-jar/org/wildfly/security/password/interfaces/RawSunUnixMD5CryptPassword.java
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jar/org/wildfly/security/evidence/package-info.java
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jar/org/wildfly/security/password/spec/MaskedPasswordSpec.java
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jar/org/wildfly/security/key/RawRSAPrivateKey.java
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jar/org/wildfly/security/key/RawPBEKey.java
* /opt/cola/permits/1150250368_1627682344.37/0/wildFly-elytron-credential-1-10-3-final-sources-
jar/org/wildfly/security/evidence/BearerTokenEvidence.java
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jar/org/wildfly/security/key/RawKey.java
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jar/org/wildfly/security/key/RSAParameterSpiImpl.java
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jar/org/wildfly/security/credential/BearerTokenCredential.java
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* /opt/cola/permits/1150250368_1627682344.37/0/wildfly-elytron-credential-1-10-3-final-sources-jar/org/wildfly/security/password/spec/SaltedHashPasswordSpec.java
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*/

Found in path(s):
*/opt/cola/permits/1135892501_1613626827.26/0/java-sizeof-0-0-5-sources-1-jar/com/carrotsearch/sizeof/Constants.java
*/opt/cola/permits/1135892501_1613626827.26/0/java-sizeof-0-0-5-sources-1-jar/com/carrotsearch/sizeof/RamUsageEstimator.java

No license file was found, but licenses were detected in source scan.

/**
 * This class contains black magic stuff based mostly on proprietary
 * APIs and hacks. Use at your own risk.
 */

Found in path(s):
*/opt/cola/permits/1135892501_1613626827.26/0/java-sizeof-0-0-5-sources-1-jar/com/carrotsearch/sizeof/BlackMagic.java

1.1266 more-iterutils 5.0.0

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1.1267 pkg-config 0.27.1 4.el7
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1.1269 maven-install-plugin 2.4

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1.1273 lombok 1.18.8

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1.1274 gliderlabs-ssh v0.3.2

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1.1275 maven-repository-metadata 2.0.9

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    <th>Package Artifact</th>
    <th>Package Version</th>
    <th>Remote Licenses</th>
    <th>Local Licenses</th>
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Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 12136

<xsl:template name="remap-local-filename">
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        </xsl:when>
    </xsl:choose>
</xsl:template>
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package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 * @return an optional URL for the license.
 */
String url() default "";
}

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* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds.strategy/ParentFirstStrategy.java
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* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/realm/ClassRealm.java
* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/realm/DuplicateRealmException.java
* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/launcher/ConfigurationException.java
* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/UrlUtils.java
* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/ClassWorldException.java
* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/realm/Entry.java
* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/strategy/StrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/launcher/ConfigurationHandler.java
* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/ClassLoader.java
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* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/strategy/AbstractStrategy.java
* /opt/ws_local/PERMITS_SQL/1077506013_1596876990.94/0/plexus-classworlds-2-2-2-sources-1-jar/org/codehaus/plexus/classworlds/launcher/Configurator.java

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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
GIT: 6e63b53

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WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
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Name:
Version:
Release: 0% {?dist}
Summary:
License:
URL:
Source0:

BuildRequires:
Requires:

%description

%prep
%setup -q

%build
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  jar/org/custommonkey/xmlunit/ElementQualifier.java
* /opt/ws_local/PERMITS_SQL/1031219598_1591845783.39/0/xmlunit-1-6-sources-1-
  jar/org/custommonkey/xmlunit/ElementNameAndTextQualifier.java
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* /opt/ws_local/PERMITS_SQL/1031219598_1591845783.39/0/xmlunit-1-6-sources-1-jar/org/custommonkey/xmlunit/DetailedDiff.java
* /opt/ws_local/PERMITS_SQL/1031219598_1591845783.39/0/xmlunit-1-6-sources-1-jar/org/custommonkey/xmlunit/DifferenceListener.java

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jar/org/custommonkey/xmlunit/XMLTestCase.java
* /opt/ws_local/PERMITS_SQL/103121958_1591845783.39/0/xmlunit-1-6-sources-1-
jar/org/custommonkey/xmlunit/util/IntegerBuffer.java
* /opt/ws_local/PERMITS_SQL/103121958_1591845783.39/0/xmlunit-1-6-sources-1-
jar/org/custommonkey/xmlunit/ComparisonController.java
* /opt/ws_local/PERMITS_SQL/103121958_1591845783.39/0/xmlunit-1-6-sources-1-
jar/org/custommonkey/xmlunit/NodeTester.java
* /opt/ws_local/PERMITS_SQL/103121958_1591845783.39/0/xmlunit-1-6-sources-1-
jar/org/custommonkey/xmlunit/NamespaceContext.java
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jar/org/custommonkey/xmlunit/DoctypeInputStream.java
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jar/org/custommonkey/xmlunit/NodeDetail.java
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jar/org/custommonkey/xmlunit/SimpleNamespaceContext.java
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jar/org/custommonkey/xmlunit/IgnoreTextAndAttributeValueDifferenceListener.java
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1.1328 jackson 2.10.1

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1.1339 plexus-utils 3.0.8
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Spring Boot CLI
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==================================================================
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==================================================================

The following is a listing of the open source components detailed in this
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associated with each component.

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>>> JOpt Simple (net.sf.jopt-simple:jopt-simple)
>>> ASM 4.0 (org.ow2.asm:asm)
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>>> Apache HttpClient (org.apache.httpcomponents:httpclient)
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>>> org.ow2.asm:asm

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>>> org.apache.httpcomponents:httpcore
>>> org.sonatype.plexus:plexus-cipher
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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*   "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
* Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.1349 freehep-io 2.2.2
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Spring Boot CLI

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* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/ConstructorResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/MethodResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/BeanResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/Projection.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/FunctionReference.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/BeanReference.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/TypeConverter.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/TypeResol
No license file was found, but licenses were detected in source scan.

"foo${expr0}bar${expr1}". The static

Found in path(s):
* * number of expressions all contained in "$[…]" markers. For instance
No license file was found, but licenses were detected in source scan.

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  */

  Found in path(s):
No license file was found, but licenses were detected in source scan.

" +

Found in path(s):
* " for expression starting at character " + prefixIndex + "
No license file was found, but licenses were detected in source scan.

case ']': case '}

Found in path(s):
* case '}
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* * http
No license file was found, but licenses were detected in source scan.

case ']': case '(':

Found in path(s):
* case '('
No license file was found, but licenses were detected in source scan.

// Chew on the expression text - relying on the rules
* case \'
* case "
No license file was found, but licenses were detected in source scan.

square brackets [] round brackets () and curly brackets {}

Found in path(s):
* * Bracket is used to describe
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jar/org/springframework/expression/spel/ast/OpOr.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ExpressionState.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpModulus.java

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*/

Found in path(s):
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/ParserContext.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/SpelEvaluationException.java

1.1355 elasticsearch-x-content 6.8.5
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```
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    connection.py
    resource.py
    compute/
        compute_service.py
        v2/
            server.py
            _proxy.py
tests/
    compute/
        v2/
            test_server.py
clouds:
test_cloud:
    region_name: RegionOne
    auth:
        auth_url: http://xxx.xxx.xxx.xxx:5000/v2.0/
        username: demo
        password: secrete
        project_name: demo
rackspace:
    cloud: rackspace
    auth:
        username: joe
        password: joes-password
        project_name: 123123
        region_name: IAD
example:
    image_name: fedora-20.x86_64
    flavor_name: m1.small
    network_name: private
```
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1.1358 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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- `analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`
- `analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt`

See [http://members.unine.ch/jacques.savoy/clef/index.html](http://members.unine.ch/jacques.savoy/clef/index.html).

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- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
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- `analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`
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* /opt/cola/permits/1167153028_1621579318.04/0/netty-codec-http-4-1-65-final-sources-
  jar/io/netty/handler/codecs/http/websocketx/WebSocketFrameDecoder.java
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jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
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- analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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1.1391 commons-digester 1.7

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  jar/org/apache/commons/digester/substitution/package.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1.7-sources-1-
  jar/org/apache/commons/digester/package.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1.7-sources-1-
  jar/org/apache/commons/digester/xmlrules/package.html
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  jar/org/apache/commons/digester/plugins/package.html
* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1.7-sources-1-
  jar/org/apache/commons/digester/parser/package.html
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* /opt/ws_local/PERMITS_SQL/1068412530_1594395877.79/0/spring-aspects-5-2-5-release-sources-1-jar/org/springframework/context/annotation/aspectj/EnableSpringConfigured.java

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1.1395 txw2 2.3.3

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### 1.1406 jackson 2.2.1

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1.1409 spring-bridge 2.6.1

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1.1412 springfoxswagger 2.8.0
1.1413 protobuf-java 3.6.1

1.1414 libxcursor 1.1.15-1.el7_9.0atomix1

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1.1415 netty-transport-native-epoll

4.1.48.Final

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* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/netty_epoll_linuxsocket.c
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* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5.jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5.jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5.jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5.jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5.jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5.jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5.jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5.jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5.jar/io/netty/channel/epoll/EpollEventLoop.java

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jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
jar/io/netty/channel/epoll/EpollEventArray.java

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 */
/**
 * Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {code TCP_QUICKACK} option on the socket. See <a
href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

Found in path(s):
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-

jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

1.1416 ip-address 3.0.0

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*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/util/IPAddressStringWriter.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/validate/AddressParseData.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/IPAddressSegment.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/HostsName.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/AddressLargeDivision.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/util/IPAddressPartConfiguredString.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/AddressStringParameters.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/AddressComponent.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/AddressSegmentSeries.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/mac/MACAddressSection.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/mac/MACAddressSegment.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/util/IPAddressPartStringCollectionBase.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/validate/HostIdentifierStringValidator.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/ipv4/IPv4AddressSegment.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/ipv6/IPv6AddressSegment.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/ipv6/IPv6Address.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/IPAddressStringParameters.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/AddressDivision.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/IPAddressDivisionGrouping.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/IPAddressBitsDivision.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/AddressStringDivisionGrouping.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/IPAddressStringDivisionGrouping.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/IPAddressPartStringCollectionBase.java
*/opt/ws_local/PERMITS_SQL/1013125626_1591898339.98/0/ipaddress-3-0-0-sources-jar/inet/ipaddr/format/validate/HostIdentifierStringValidator.java
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1.1420 mapstruct 1.3.1.Final

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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
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- 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
- web-fragment_3_1.xsd
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* /opt/cola/permits/1158098959_1619705777.77/0/jjwt-api-0-11-1-sources-1-jar/io/jsonwebtoken/security/SecurityException.java

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jar/io/jsonwebtoken/CompressionCodec.java
* /opt/cola/permits/1158098959_1619705777.77/0/jjwt-api-0-11-1-sources-1.jar/io/jsonwebtoken/CompressionCodecResolver.java
* /opt/cola/permits/1158098959_1619705777.77/0/jjwt-api-0-11-1-sources-1.jar/io/jsonwebtoken/MissingClaimException.java
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* /opt/cola/permits/1158098959_1619705777.77/0/jjwt-api-0-11-1-sources-1.jar/META-INF/maven/io.jsonwebtoken/jjwt-api/pom.xml

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## Commands to generate dependency files
GEN_DEPS.c=$CC -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$CC -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$($(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
```
## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/\$(^\$)\.o\[ :\]*/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed "s/\$(^\$)\.o\[ :\]*/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@’

## Versioned libraries rules

%.SO.$(SO_TARGET_VERSION_MAJOR): %.SO.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.SO: %.SO.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'

STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType('room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        ),
    ),
    DefaultedNamedType('house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
    ),
)
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

---

---
Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The `pyasn1` classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their `pyasn1` classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
  id=123
  room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question on Stack Overflow [http://stackoverflow.com/questions/ask] or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-42-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/README.md
No license file was found, but licenses were detected in source scan.

.. _license:

License
=======

.. include:: ../../LICENSE.rst

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No license file was found, but licenses were detected in source scan.

ASN.1 library for Python

========================
Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

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

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protobuf/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
:maxdepth: 2

/pyasn1/contents

Use case
-------

.. toctree::
:maxdepth: 2
Download & Install

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

License

The PyASN1 software is distributed under 2-clause BSD License.

Getting help


Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:
Here you can get the official standards which is hard to read:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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# License: http://snmplabs.com/pyasn1/license.html

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* `/opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/compat/dateandtime.py`
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* `/opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/type/namedval.py`
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* `/opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/type/test_constraint.py`
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1.1458 jackson-datatype-jsr310 2.10.1
1.1458.1 Available under license:

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1.1459 lua 5.1.4 15.el7
1.1459.1 Available under license:

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1.1460 infinispan-commons 10.1.8.Final

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<name>Apache License Version 2.0</name>
# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <http://www.iana.org/assignments/media-types/>.
#
# MIME type (lowercased) Extensions
# ==================================================================
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application/3gpdash-qoe-report+xml
application/3gpp-ims+xml
application/a2l
application/activemessage
application/alto-costmap+json
application/alto-costmapfilter+json
application/alto-directory+json
application/alto-endpointcost+json
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application/alto-endpointpropparams+json
application/alto-error+json
application/alto-networkmap+json
application/alto-networkmapfilter+json
application/aml
application/andrew-insetez
application/applefile
application/applixwareaw
application/atf
application/atfx
application/atom+xml
application/atomcat+xml
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audio/evrcb1
audio/evrcnw
audio/evrcnw0
audio/evrcnw1
audio/evrcwb
audio/evrcwb0
audio/evrcwb1
audio/evs
audio/example
audio/fwdred
audio/g711-0
audio/g719
audio/g722
audio/g7221
audio/g723
audio/g726-16
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audio/g726-32
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audio/g729
audio/g7291
audio/g729d
audio/g729e
audio/gsm
audio/gsm-efr
audio/gsm-hr-08
audio/ilbc
audio/ip-mr_v2.5
audio/isac
audio/l16
audio/l20
audio/l24
audio/l8
audio/lpc
audio/midimid midi kar rmi
audio/mobile-xmf
audio/mp4m4a mp4a
message/s-http
message/sip
message/sipfrag
message/tracking-status
message/vnd.si.simp
message/vnd.wfa.wsc
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model/gltf+json
model/igesigs iges
model/mesh/sh mesh silo
model/vnd.collada+xml
model/vnd.dwf
model/vnd.flatland.3dml
model/vnd.gdldl
model/vnd.gs-gdl
model/vnd.gs.gdl
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model/vnd.moml+xml
model/vnd.mtsmerged
model/vnd.opengex
model/vnd.parasolid.transmit.binary
model/vnd.parasolid.transmit.text
model/vnd.rosette.annotated-data-model
model/vnd.valve.source.compiled-map
model/vnd.vtu
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model/x.3d+binaryx3db x3dbz
model/x.3d+fastinfoset
model/x.3d+vrmlx3dv x3dvz
model/x.3d+xml
model/x.3d+vrml
multipart/alternative
multipart/appledouble
multipart/byteranges
multipart/digest
multipart/encrypted
multipart/example
multipart/form-data
multipart/header-set
multipart/mixed
multipart/parallel
multipart/related
multipart/report
multipart/signed
multipart/voice-message
multipart/x-mixed-replace
text/1d-interleaved-parityfec
text/cache-manifest
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: infinispan
Build-Jdk: 11.0.7
Specification-Title: Infinispan Commons
Specification-Vendor: JBoss, a division of Red Hat
1.1461 jackson-dataformat-smile 2.9.9

1.1462 zipp 3.5.0

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1.1463 netty-transport 4.1.48.Final

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Alternatively, the following adapter classes are provided for your convenience:

- `ChannelInboundHandlerAdapter` to handle inbound I/O events,
- `ChannelOutboundHandlerAdapter` to handle outbound I/O operations, and
- `ChannelDuplexHandler` to handle both inbound and outbound events

For more information, please refer to the documentation of each subtype.

**The context object**

A `ChannelHandler` is provided with a `ChannelHandlerContext` object. A `ChannelHandler` is supposed to interact with the `ChannelPipeline` it belongs to via a context object. Using the context object, the `ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `AttributeKey`s) which is specific to the handler.

**State management**

A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(@ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
```
Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where an unauthenticated client can get
the confidential information:

```java
// Create a new handler instance per channel.
// See [ChannelInitializer#initChannel](Channel).
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Using `AttributeKey`s

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use `AttributeKey`s which is provided by
`ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```
Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }

    @Sharable annotation

    In the example above which used an `AttributeKey`, you might have noticed the `Sharable` annotation.
    If a `ChannelHandler` is annotated with the `Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.
    If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.
    This annotation is provided for documentation purpose, just like the JCIP annotations.

    Additional resources worth reading
    Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
```

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* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
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  jar/io/netty/channel/ChannelGroup.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/AbstractEventLoopGroup.java
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  jar/io/netty/bootstrap/ChannelFactory.java
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  jar/io/netty/channel/ChannelHandlerAdapter.java
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  jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/ConnectTimeoutException.java
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  jar/io/netty/channel/DefaultAddressedEnvelope.java
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* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/PendingBytesTracker.java

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  jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
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* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
  jar/io/netty/channel/DefaultSelectStrategyFactory.java
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  jar/io/netty/channel/socket/DuplexChannel.java
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  jar/io/netty/bootstrap/BootstrapConfig.java
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  jar/io/netty/channel/ChannelOutboundInvoker.java
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  jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
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  jar/io/netty/channel/EventLoopTaskQueueFactory.java
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2001-12-12
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hostname -- set the host name or show the host/domain name

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  1.12.1/third_party/boringssl/crypto/fipsmodule/bn/montgomery.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/include/openssl/err.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/err/err.c
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  1.12.1/third_party/boringssl/ssl/s3_pkt.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/pem/pem_all.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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  1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/internal/gtest-param-util-generated.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/third_party/googletest/test/gtest-test-part_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/third_party/googletest/include/gtest/internal/gtest-tuple.h
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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1.12.1/src/core/lib/security/transport/server_auth_filter.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/security/transport/security_context.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/transport/connectivity_state.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/transport/chttp2/transport/frame_data.cc
1.12.1/src/core/lib/iomgr/wakeup_fd_nospecial.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/iomgr/pollset_set_windows.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/iomgr/socket_utils_linux.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/transport/chttp2/transport/incoming_metadata.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/json/json_common.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/channel/context.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/grpc/time_precise.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/include/grpc/support/alloc.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/gpr/env_linux.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/filters/client_channel/resolver.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/filters/client_channel/lb_policy/round_robin/round_robin.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/grpc/time_precise.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/include/grpc/support/sync.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/filters/client_channel/lb_policy/round_robin/round_robin.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/grpc/time_precise.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/gpr/string_windows.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/tsi/transport_security.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/iomgr/timer_heap.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/iomgr/polling_entity.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/iomgr/pollset_set.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/include/grpc/slice_buffer.h
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*/

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/* inflate9.h -- internal inflate state definition
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/crypto/curve25519/ed25519_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/crypto/fipsmodule/ec/util-64.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/tool/generate_ed25519.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/tool/rand.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/crypto/thread_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/tool/genrsa.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/crypto/test/file_test.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/include/openssl/ssl/aead_ctx.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/src/boringssl/err_data.c
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// func cswap(inout *[5]uint64, v uint64)

TEXT ¬cswap(SB),7,$0
MOVQ inout+0(FP),DI
MOVQ v+8(FP),SI
CMPQ SI,$1
MOVQ 0(DI),SI
MOVQ 80(DI),DX
MOVQ 8(DI),CX
MOVQ 88(DI),R8
MOVQ SI,R9
CMOVQEQ DX,SI
CMOVQEQ R9,DX
MOVQ CX,R9
CMOVQEQ R8,CX
CMOVQEQ R9,R8
MOVQ SI,0(DI)
MOVQ DX,80(DI)
MOVQ CX,8(DI)
MOVQ R8,88(DI)
MOVQ 16(DI),SI
MOVQ 96(DI),DX
MOVQ 24(DI),CX
MOVQ 104(DI),R8
MOVQ SI,R9
CMOVQEQ DX,SI
CMOVQEQ R9,DX
MOVQ CX,R9
CMOVQEQ R8,CX
CMOVQEQ R9,R8
MOVQ SI,16(DI)
MOVQ DX,96(DI)
MOVQ CX,24(DI)
MOVQ R8,104(DI)
MOVQ 32(DI),SI
MOVQ 112(DI),DX
MOVQ 40(DI),CX
MOVQ 120(DI),R8
MOVQ SL,R9
CMOVQEQ DX,SI
CMOVQEQ R9,DX
MOVQ CX,R9
CMOVQEQ R8,CX
CMOVQEQ R9,R8
MOVQ SI,32(DI)
MOVQ DX,112(DI)
MOVQ CX,40(DI)
MOVQ R8,120(DI)
MOVQ 48(DI),SI
MOVQ 128(DI),DX
MOVQ 56(DI),CX
MOVQ 136(DI),R8
MOVQ SL,R9
CMOVQEQ DX,SI
CMOVQEQ R9,DX
MOVQ CX,R9
CMOVQEQ R8,CX
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/runner/curve25519/cswap_amd64.s
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  1.12.1/third_party/boringssl/ssl/t1_enc.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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  * /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/ares_library_init.h
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* /opt/cola/permits/1160881901_160412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/runner/curve25519/const_amd64.h
* /opt/cola/permits/1160881901_160412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/runner/curve25519/freeze_amd64.s
* /opt/cola/permits/1160881901_160412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/runner/poly1305/sum_amd64.s
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* /opt/cola/permits/1160881901_160412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/runner/curve25519/square_amd64.s
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* /opt/cola/permits/1160881901_160412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/third_party/googletest/test/gtest-listener_test.cc
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

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 *
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/include/grpcimpl/codegen/grpc_types.h
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  1.12.1/third_party/cares/cares/ares__timeval.c

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/* compress.c -- compress a memory buffer
 * Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
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 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/compress.c

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Mark Adler    madler@alumni.caltech.edu

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/examples/gzlog.h
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/ares_parse_soa_reply.c
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/* infback9.c -- inflate deflate64 data using a call-back interface
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/fipsmodule/cipher/e_aes.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/src/core/ext/filters/workarounds/workaround_cronet_compression_filter.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/src/core/ext/filters/max_age/max_age_filter.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/src/core-ext/filters/client_channel/resolver/fake/fake_resolver.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/src/core-ext/filters/deadline/deadline_filter.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/src/core-ext/filters/client_channel/subchannel_index.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* Author: Emilia Kasper (emilia@openssl.org)
* Based on previous work by Bodo Moeller, Emilia Kasper, Adam Langley
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/third_party/googletest/samples/sample9_unittest.cc
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  1.12.1/third_party/cares/cares/setup_once.h

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/* blast.c
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 * version 1.3, 24 Aug 2013
 *
 * blast.c decompresses data compressed by the PKWare Compression Library.
 * This function provides functionality similar to the explode() function of
 * the PKWare library, hence the name "blast".
 *
 * This decompressor is based on the excellent format description provided by
 * Ben Rudiak-Gould in comp.compression on August 13, 2001. Interestingly, the
 * example Ben provided in the post is incorrect. The distance 110001 should
 * instead be 111000. When corrected, the example byte stream becomes:
 *
 * 00 04 82 24 25 8f 80 7f
 *
 * which decompresses to "AIAIAIAIAIAIA" (without the quotes).
 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/contrib/blast/blast.c
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/.../boringssl/include/openssl/ex_data.h
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/.../boringssl/crypto/fipsmodule/bn/prime.c
/.../boringssl/crypto/internal.h
/.../boringssl/crypto/ex_data.c

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  1.12.1/third_party/boringssl/ssl/d1_both.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/ssl/d1_pkt.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/third_party/googletest/scripts/common.py
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/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14th, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

Modifications of Unzip for Zip64
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Modifications for Zip64 support on both zip and unzip
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For more info read MiniZip_info.txt

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Changes

See header of unzip64.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/address_sorting/include/address_sorting/address_sorting.h
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/* inffas8664.c is a hand tuned assembler version of inffast.c - fast decoding *
 * version for AMD64 on Windows using Microsoft C compiler *
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// +build amd64,!gccgo,!appengine

// These constants cannot be encoded in non-MOVQ immediates.
// We access them directly from memory instead.

DATA ·_121666_213(SB)/8, $996687872
GLOBL ·_121666_213(SB), 8, $8

DATA ·_2P0(SB)/8, $0FFFFFFFFFFFFDA
GLOBL ·_2P0(SB), 8, $8

DATA ·_2P1234(SB)/8, $0xFFFFFFFFFFFFE
GLOBL ·_2P1234(SB), 8, $8

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/* uncompr.c -- decompress a memory buffer
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/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/d1_lib.cc
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  1.12.1/third_party/boringssl/ssl/ssl_stat.cc
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* /opt/cola/permits/1160881901_1620412826.60/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509v3/v3_alt.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/gtest-test-part.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/third_party/googletest/test/gtest_break_on_failure_unittest_.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/third_party/googletest/src/gtest-test-part.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/test/gmock-generated-function-mockers_test.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/src/gtest-test-part.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/src/gtest-all.cc
* /opt/cola/permissions/1160881901_1620412826.60/grpcio-1-12-1-1-tar-gz/grpcio-
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1.12.1/third_party/cares/cares/test/gmock-1.7.0/include/gmock/internal/gmock-generated-internal-utils.h
* /opt/permissions/1160881901_1620412826.60/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/samples/sample3-inl.h
* /opt/permissions/1160881901_1620412826.60/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/third_party/googletest/test/gtest_output_test_.cc
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* /opt/permissions/1160881901_1620412826.60/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/permissions/1160881901_1620412826.60/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/permissions/1160881901_1620412826.60/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/cares/cares/test/gmock-1.7.0/test/gmock-matchers_test.cc
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   * /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/cares/cares/ares_parse_txt_reply.c
   * /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/cares/cares/ares_parse_naptr_reply.c

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 * version 2.2, 14 Aug 2012
 */

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   * /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/zlib/examples/gzlog.c

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* 1.12.1/third_party/boringssl/crypto/pem/pem_xaux.c
* /opt/cola/permits/1160881901_1620412826.60/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-$tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/asn1/time_support.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/boringssl/crypto/pem/pem_x509.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/boringssl/crypto/x509/x509cset.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/client_channel/lib_policy/grpccli/grpcclb/grpcclb_client_stats.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/surface/completion_queue_factory.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/surface/completion_queue_factory.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/transport_security_grpc.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_channel.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/client_channel/backup_poller.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/compression/stream_compression.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/transport/status_metadata.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/debug/stats.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/client_channel/backup_poller.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/client_channel/lib_policy/grpcclb/grpcclb_channel.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/transport/status_metadata.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/transport_security_grpc.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/arena.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/tcp_server_utils_posix.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/tcp_server_utils_posix_common.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/gethostname_host_name_max.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/gprpp/orphanable.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/gprpp/ref_counted_ptr.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/src/core/lib/gprpp/memory.h
1.12.1/src/core/lib/iomgr/call_combiner.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/transport/chttp2/transport/flow_control.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_client_stats.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/security/transport/target_authority_table.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/iomgr/lockfree_event.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/ext/transport/inproc/inproc_transport.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/src/core/lib/grpcpp/ref_counted.h

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  1.12.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/tokenize.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/utils.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/keywords.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/ast.py

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  1.12.1/third_party/cares/cares/ares_getnameinfo.c
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/*
 Additional tools for Minizip
 Code: Xavier Roche ’2004
 License: Same as ZLIB (www.gzip.org)
 */

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  1.12.1/third_party/zlib/contrib/minizip/mztools.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/zlib/contrib/minizip/mztools.c
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  1.12.1/third_party/cares/cares/ares_expand_name.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/cares/cares/ares__get_hostent.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/cares/cares/ares_dns.h

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include/openssl/x509_vfy.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include/openssl/asn1.h
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/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14th, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

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Changes

See header of zip.h

*/

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* /opt/cola/permits/1160881901_1620412826.60/grpcio-1.12.1-1-tar.gz/grpcio-1.12.1/third_party/zlib/contrib/minizip/zip.h
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*/
* puff.c
* puff.c is a simple inflate written to be an unambiguous way to specify the
  * deflate format. It is not written for speed but rather simplicity. As a
  * side benefit, this code might actually be useful when small code is more
  * important than speed, such as bootstrap applications. For typical deflate
  * data, zlib's inflate() is about four times as fast as puff(). zlib's
  * inflate compiles to around 20K on my machine, whereas puff.c compiles to
  * around 4K on my machine (a PowerPC using GNU cc). If the faster decode()
  * function here is used, then puff() is only twice as slow as zlib's
  * inflate().
  *
  * All dynamically allocated memory comes from the stack. The stack required
  * is less than 2K bytes. This code is compatible with 16-bit int's and
  * assumes that long's are at least 32 bits. puff.c uses the short data type,
  * assumed to be 16 bits, for arrays in order to conserve memory. The code
  * works whether integers are stored big endian or little endian.
  *
  * In the comments below are "Format notes" that describe the inflate process
  * and document some of the less obvious aspects of the format. This source
  * code is meant to supplement RFC 1951, which formally describes the deflate
  * format:
  *
  * http://www.zlib.org/rfc-deflate.html
  */

Found in path(s):
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/cares/cares/ares_init.c
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/* infback.c -- inflate using a call-back interface
 * Copyright (C) 1995-2016 Mark Adler
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 */

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* ====================================================================

* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
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* /

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 * The elliptic curve binary polynomial software is originally written by
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* /opt/cola/permissions/1160881901_1620412826.60/grpcio-1.12.1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include/openssl/ec.h
* /opt/cola/permissions/1160881901_1620412826.60/grpcio-1.12.1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/ec/simple.c
* /opt/cola/permissions/1160881901_1620412826.60/grpcio-1.12.1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/ec/wnaf.c
* /opt/cola/permissions/1160881901_1620412826.60/grpcio-1.12.1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/ec/ec_key.c
* /opt/cola/permissions/1160881901_1620412826.60/grpcio-1.12.1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include/openssl/ec_key.h
* /opt/cola/permissions/1160881901_1620412826.60/grpcio-1.12.1-1-tar-gz/grpcio-
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
 * Copyright (C) 2004-2017 Mark Adler
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 */

Found in path(s):
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
 1.12.1/third_party/zlib/gzlib.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
 1.12.1/third_party/boringssl/crypto/fipsmodule/ec/p256-x86_64-table.h
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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# Issuer: CN=GlobalSign Root CA O=GlobalSign nv-sa OU=Root CA
# Subject: CN=GlobalSign Root CA O=GlobalSign nv-sa OU=Root CA
# Label: "GlobalSign Root CA"
# Serial: 4835703278459707669005204

# SHA256 Fingerprint:

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-----END CERTIFICATE-----

# Issuer: CN=GlobalSign Root CA - R2
# Subject: CN=GlobalSign Root CA - R2
# Label: "GlobalSign Root CA - R2"
# Serial: 4835703278459682885568125

# MD5 Fingerprint: 91:0e:77:7e:3e:5e:fe:8f:30:bd:41:b0:fe:7d:00:30
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----

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Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)  13625
### Certificate Details

**Issuer:** CN=Visa eCommerce Root O=VISA OU=Visa International Service Association

**Serial:** 25952180776285836048048289024150556794


**SHA256 Fingerprint:**

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#### BEGIN CERTIFICATE

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**Issuer:** CN=AAA Certificate Services O=Comodo CA Limited
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# Issuer: O=SECOM Trust.net OU=Security Communication RootCA1
# Subject: O=SECOM Trust.net OU=Security Communication RootCA
# Label: "Security Communication Root CA"
# Serial: 0
# SHA256 Fingerprint:

---BEGIN CERTIFICATE-----
Open Source Used in Cisco Nexus Dashboard Fabric Controller 12.0(1) 13633

# Issuer: CN=Sonera Class2 CA O=Sonera
# Subject: CN=Sonera Class2 CA O=Sonera
# Label: "Sonera Class 2 Root CA"
# Serial: 29

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-----END CERTIFICATE-----

# Issuer: CN=XRamp Global Certification Authority O=XRamp Security Services Inc
# Subject: CN=XRamp Global Certification Authority O=XRamp Security Services Inc
# Label: "XRamp Global CA Root"
# Serial: 10710890803651509692980124233745014957
# MD5 Fingerprint: df:0d:2f:92:0a:ad:1

---BEGIN CERTIFICATE-----
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Open Source Used in Cisco Nexus Dashboard Fabric Controller 12.0(1) 13633
# SHA256 Fingerprint:
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-----END CERTIFICATE-----
# Issuer: CN=Class 2 Primary CA O=Certplus
# Subject: CN=Class 2 Primary CA O=Certplus
# Label: "Certplus Class 2 Primary CA"
# Serial: 177770208045394042041468760488327595043
-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
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AT6a8EkgJqdebc3MS6RFjaaS6LPeWuWgfOhblaa6V=---END CERTIFICATE-----

# Issuer: CN=thawte Primary Root CA O=thawte, Inc. OU=Certification Services Division/(c) 2006 thawte, Inc. - For authorized use only
# Subject: CN=thawte Primary Root CA O=thawte, Inc. OU=Certification Services Division/(c) 2006 thawte, Inc. - For authorized use only
# Label: "thawte Primary Root CA"
# Serial: 6952918199203566298953787712940909
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----

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# Issuer: CN=VeriSign Class 3 Public Certification Authority - G5 O=VeriSign, Inc. - For authorized use only
# Subject: CN=VeriSign Class 3 Public Certification Authority - G5 O=VeriSign, Inc. - For authorized use only

---END CERTIFICATE-----
Endorsed

# Label: "OISTE WISEKey Global Root GA CA"
# Serial: 867188778711335900080555911823548314
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Certigna O=Dhimyotis
# Subject: CN=Certigna O=Dhimyotis
# Label: "Certigna"
# Serial: 18364802974209362175
# SHA256 Fingerprint:

-----END CERTIFICATE-----

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 13647
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WyH8EZE0vkHve52Xdf+XLCvWwC/qu0bXu+TZLg==
----END CERTIFICATE-----

# Issuer: CN=Deutsche Telekom Root CA 2 O=Deutsche Telekom AG OU=T-TeleSec Trust Center
# Subject: CN=Deutsche Telekom Root CA 2 O=Deutsche Telekom AG OU=T-TeleSec Trust Center
# Label: "Deutsche Telekom Root CA 2"
# Serial: 38
# SHA256 Fingerprint:

---END CERTIFICATE-----
# Label: "Cybertrust Global Root"
# Serial: 483570237845968287483760
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
MIIDoTCCAomgAwIBAgIBAQBgLBAIAAABAD4WqLugwDQYJKoZIhvcNAQEFBQAwOzEYMBYGBAUEChMQ3iIZJ0cnVzdCgwS5jMR8wHQYDVQQDEXZDeWJcnRydnX0IEdsb2Jh
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-----END CERTIFICATE-----
# Issuer: O=Chunghwa Telecom Co., Ltd. OU=ePKI Root Certification Authority
# Subject: O=Chunghwa Telecom Co., Ltd. OU=ePKI Root Certification Authority
# Label: "ePKI Root Certification Authority"
# Serial: 2895608868273518965503529057352760477
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
MIIDFCA5AgIBAgIBAQBgLBAIAAABAD4WqLugwDQYJKoZIhvcNAQEFBQAwOzEYMBYGBAUEChMQ3iIZJ0cnVzdCgwS5jMR8wHQYDVQQDEXZDeWJcnRydnX0IEdsb2Jh
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-----END CERTIFICATE-----
# Issuer: CN=NetLock Arany (Class Gold) Tanstvny O=NetLock Kft. OU=Tanstvnykiadk (Certification Services)
# Subject: CN=NetLock Arany (Class Gold) Tanstvny O=NetLock Kft. OU=Tanstvnykiadk (Certification Services)
# Label: "NetLock Arany (Class Gold) Tanstvny"
# Serial: 80544274841616
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----
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XjG4Kvte9HfRCaxe0YNk8QdZWA2UWpLMKawYqGT8ZvYzsRjdT9ZRE==
-----END CERTIFICATE-----

# Issuer: CN=Staat der Nederlanden Root CA - G2 O=Staat der Nederlanden
# Subject: CN=Staat der Nederlanden Root CA - G2 O=Staat der Nederlanden
# Label: "Staat der Nederlanden Root CA - G2"
# Serial: 10000012
# SHA256 Fingerprint:


Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 13655
QyYBNWNgVYkDkONxYukrzVVP/u3oDYLdE41V4tC5h9Pmzb/Calxw==
-----END CERTIFICATE-----

# Issuer: CN=Chambers of Commerce Root - 2008 O=AC Camerfirma S.A.
# Subject: CN=Chambers of Commerce Root - 2008 O=AC Camerfirma S.A.
# Label: "Chambers of Commerce Root - 2008"
# Serial: 11806822484801597146

BEGIN CERTIFICATE
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END CERTIFICATE
AdcwKziIorhtSpzyEZGDMA0GCSqGSIb3DQEBCwUA4IBAQBLNqaEd2ndoXmy2MI
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-----END CERTIFICATE-----

# Issuer: CN=AffirmTrust Commercial O=AffirmTrust
# Subject: CN=AffirmTrust Commercial O=AffirmTrust
# Label: "AffirmTrust Commercial"
# Serial: 8608355977964138876

-----BEGIN CERTIFICATE-----
MIIDTDCCAjSgAwIBAgIId3cGJyapsXwwDQYJKoZIhvcNAQELBQAaRDELMAkGA1UE
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-----BEGIN CERTIFICATE-----
MIIDTDCCAjSgAwIBAgIIfE8EORzUsd6M06uJFdrhJNTGq7YpFzUf1GOf7RgBoZNg
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nlpQZbWUrwflKwbA8b8Ange6f2S1BLUfZKfITuXfO8=
-----END CERTIFICATE-----

# Issuer: CN=AffirmTrust Networking O=AffirmTrust
# Subject: CN=AffirmTrust Networking O=AffirmTrust
# Label: "AffirmTrust Networking"
# Serial: 895738282706547757

-----BEGIN CERTIFICATE-----
| Issuer: CN=TWCA Root Certification Authority O=TAIWAN-CA OU=Root CA |
| Subject: CN=TWCA Root Certification Authority O=TAIWAN-CA OU=Root CA |
| Label: "TWCA Root Certification Authority" |
| Serial: 1 |

---BEGIN CERTIFICATE-----

---END CERTIFICATE-----
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)  13672
# Issuer: CN=D-TRUST Root Class 3 2023 EV 2009 O=D-Trust GmbH
# Subject: CN=D-TRUST Root Class 3 2023 EV 2009 O=D-Trust GmbH
# Label: "D-TRUST Root Class 3 2009"
# Serial: 623604

**MD5 Fingerprint:**
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**SHA1 Fingerprint:**
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**SHA256 Fingerprint:**
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-----BEGIN CERTIFICATE-----

MIIEqzCCayugAwIBAgIDCYP0MA0GCSqGSIb3DQEBCwUAMFAxCzAJBgNVBAYTAkRFMRUwEwYDVQQKDAxELVRydXN0IEdtYkxJZAEiBGMJAwOTCCASIwDQYJKoZIhvcNAQELBQADgEBAbIBZ2dID36Sc4HEDHBjBlp8SVYEQBrLPME+bUMjMmNiHMLmWVmeniafc6cNsgFYbQDc+eAF1Hm5+on2a27nPPKHeJanaijn5ZLQGDSNiInh0L+LSF49po03U37CQyqva2sJ5RyOXWuV5jLajtt+rs6frzkGkj2jtZ5t1xG/UXU77M/C4KxCUqNqT4YJVEvdT1b/yMfGhs4PFT4bkTCJNjy6ltzGRUG3RnxacM2w4y8PIWmawomDeCtMgCufsYkJ4phX5GOZpIHzbN5tPvZRIFDUISi9g/mLMMHThr3YJohwl+tqRz65ysCQbhbGnR111z+oI=

-----END CERTIFICATE-----
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 13677

---END CERTIFICATE-----

# Issuer: CN=CA Disig Root R2 O=Disig a.s.
# Subject: CN=CA Disig Root R2 O=Disig a.s.
# Label: "CA Disig Root R2"
# Serial: 10572350602393338211

-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 13678

# Issuer: CN=ACCVRAIZ1 O=ACCV OU=PKIACCV
# Subject: CN=ACCVRAIZ1 O=ACCV OU=PKIACCV
# Label: "ACCVRAIZ1"
# Serial: 682850338474869680
# SHA256 Fingerprint: -----BEGIN CERTIFICATE-----

MIHH0zCCBbugAwIBAgIIXsO3pkN/pOAwDQYJKoZIhvcNAQEFBQAwQjEhMjA1NjEuMTEvMDE3MDQ0NjEwMC0wMjAtMDAwQ29tZSBPZG5lZWFzc2VhY2UgT3JnZXIgU29tZSBhY29tLXN0cmluZQ==

-----END CERTIFICATE-----
h1xA2syVP1XgNce4hL60Xc16gwFy7ofmXx2utYXGJt/mwZrpHgJHnyqobalbz+xF
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-----END CERTIFICATE-----

# Issuer: CN=TWCA Global Root CA O=TAIWAN-CA OU=Root CA
# Subject: CN=TWCA Global Root CA O=TAIWAN-CA OU=Root CA
# Label: "TWCA Global Root CA"
# Serial: 3262

-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----

# Issuer: CN=TeliaSonera Root CA v1 O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1 O=TeliaSonera
# Label: "TeliaSonera Root CA v1"
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)
# Issuer: CN=IdenTrust Public Sector Root CA 1 O=IdenTrust
# Subject: CN=IdenTrust Public Sector Root CA 1 O=IdenTrust
# Label: "IdenTrust Public Sector Root CA 1"
# Serial: 13298821034964342390521976156843939698
# SHA256 Fingerprint:

--- END CERTIFICATE ---

---BEGIN CERTIFICATE-----
S0l4PJNgiCL8mdo2yMKi1CxUAGc1bnO/AijwpN3lsKlmesrgNgUZfVx9t++u0P0D1
bV0e/c40yi1TdCMbXTMTE3EAX2MN0CZXg/1Ue9t0sobobfSdflFwLZiuQuOsOI
T0/Brs4sOdBe00XKlanoBSocy0RnnGF7HanM4HWFpIP1YVI3ZBZwvzpWCDxJ35urCL
yFy5jy5jCiN2O/cz/c0kkA82nS56LGTrx+kmzEM/dEc/He7+Br1l8azRGMzyNeVJSQjK
Vsk9+w3Y1Y5w7rpCTY/7jw436Wr+hDrmYrf7LNIQZReSzIJ7j0+kuniVyc0uMNOYZK
dhHzyVYfCP04MXFL0Pd5gvHgo62z9STQaKPNfitDoT7uje/5ikx7rL6byVBgw6HT
C+xVvqDtm6tw0vIaGxzGdd8asGDeWnA0Z0ilqf0Hj7h9tgJ4TNTK2PXMlf6i+cB7D3hv
l7y7TmvmcEpl4coCFddydXvdHixxUucA586T6C6aMN7/hWczo9lCqC0EOe5PN
iGvRrT001wILDAQABo0rWqDAOBqGvNIVHQ8B8AI8EBAMCAQYywDvYDvROTAQHJ/BAUwAEW
/2AbDgNVH94EFgQ7U7QwNPwBovpHu+Qu9cmVMiOnYnWQDYJkoZllhvcNAQELBQAD
ggIBAA2ukDL2pt8RHY7Y4r4Km1eVOl8iVOMtKp165oCOUGUAJlfvLs5+U1KMtwH
606mYqTilNeCgCQCCtRqO5US7B8jeUeLBfLoci7ipBZM4Y0+sJ7wMm+x4uwt
LRvM7K8sasppg8O8EPEvKhldcbyJM1gCIOQ045U8U1mfwF10A0cj70v+w9h3
nAbowacXyXV7CnDJ5t+quntozo0F72ul1Q8zw7sesUTTTHHYPTA8Ye4kjjxUS
+wYPQ+nVZjHIKdp2mhzpgh7vrmFLR94gjmnnVYjViYA211QC/GXsC7U1YRYRK
W2XviQzdFKcgxixlJbQn+QHwotL0AMh0jqEqSI512xPEiUXfe+uhsX1IFRR0kOp
AsvswXco77W9L9RcCw9yrYoAa5vnrXHMUpu9jEpCdNDTnd1lzz9yGvlu17roTlq
11gE144v8yBckzOmoKaTgEopyj4xjih9bTYWnpXgSUyorkqK5w2gjXtw+hG
4iIZRHHe2WXJUc0QhJ1yHMd+ZciTY6Y5u9N/9lu7s3KSoFrxgvvmUeF0K+1+f6jZ
mUL0+cWkAzvUPHGsNiszkzZ8seIIPGrd6ozRaOjAHN3Gf8q8VQhIBM+i+wAN10J5U6A
7q5xkDgPrtk4d4L7TczqQ+QGTvkOnO7RcGz7MVr+Bi6h6G6H

--- END CERTIFICATE ---
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)
# Issuer: CN=TrustCor RootCert CA-1 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority
# Subject: CN=TrustCor RootCert CA-1 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority
# Label: "TrustCor RootCert CA-1"

# Serial: 15752444095811006489


# SHA1 Fingerprint: ff:bd:cd:e7:82:c8:43:5e:3c:6f:26:86:5c:ca:83:3a:45:5b:3c:0a

# SHA256 Fingerprint:


-----BEGIN CERTIFICATE-----

MIIEMDCCAxigAwIBAgIJA1NqbH7HzA7AZMA0GCSqGSIb3DQEBCwUAMIGkMQswCQYD
VQQGEwJQTEPMA0GA1UECAwGUGFuYW1hMRQwEgYDVQQHDAtQYW5hbWEgQ2l0eTEk
MCIGA1UECgwvVHJ1c3RDb3IgU3lzdGVtcyBTLiBkZSBSLkwuMScwQYVDQQLDB5U

-----END CERTIFICATE-----

# Issuer: CN=TrustCor RootCert CA-2 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority
# Subject: CN=TrustCor RootCert CA-2 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority

# Label: "TrustCor RootCert CA-2"

# Serial: 2711694510199101698


# SHA256 Fingerprint:


-----END CERTIFICATE-----

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 13712
MIILGzCCBBegAWIBAgIJaHfyjPLQWtIQDXYJKoZiIhvcNAQELBQAwgaQxIABgNV
BAYTAlIBBMQwMwYQQVQIDAZQY5WshbWExFDSASBpNVBAcMc1BIhbnFtYSBDaXR5MSQw
IgYDVQQKDBUtCNvzDENVciBTcXN0ZW1zIFMuGRIFIuTC4xJzAlBgNVBAwMTHh2eW1a
xQzIzZzE3OTYxMjI0MDB0Y291Z2UyMTUyMDAUMCIGA1UEEwJQQTEPMA0GA1UECwJQQ
TEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTE
PMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA
0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA
1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UE
CwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECw
JQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQ
TEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEP
MA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0
GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1
UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UE
CwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECw
JQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQ
TEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTE
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1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UE
CwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECw
JQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQ
TEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTE
PMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA
0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA
1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UE
CwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJ
QQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQT
-----END CERTIFICATE-----

# Issuer: CN=TrustCor ECA-1 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority
# Subject: CN=TrustCor ECA-1 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority
# Label: "TrustCor ECA-1"
# Serial: 95482496988625984
# BEGIN CERTIFICATE-----

MIIIEIDCCAwIiAgIBAgIJaHfyjPLQWtIQDXYJKoZiIhvcNAQELBQAwgaQxIABgNV
BAYTAlIBBMQwMwYQQVQIDAZQY5WshbWExFDSASBpNVBAcMc1BIhbnFtYSBDaXR5MSQw
IgYDVQQKDBUtCNvzDENVciBTcXN0ZW1zIFMuGRIFIuTC4xJzAlBgNVBAwMTHh2eW1a
xQzIzZzE3OTYxMjI0MDB0Y291Z2UyMTUyMDAUMCIGA1UEEwJQQTEPMA0GA1UECwJQQ
TEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEP
MA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0
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UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UE
CwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECw
JQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQ
TEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTE
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0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA
1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UE
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JQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQ
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1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UE
CwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJ
QQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQTEPMA0GA1UECwJQQT
-----END CERTIFICATE-----

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Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 13714

---END CERTIFICATE-----
# SHA256 Fingerprint:
------BEGIN CERTIFICATE-----
MII6zCCA90gAwIBAgIIvYpztTS8ePQwDQYJKoZIhvcNAQELBQAwYxCzAJBgvNVBAYTAIMTQw4dDAYDVQI:
-----BEGIN CERTIFICATE-----
MII6zCCA90gAwIBAgIIvYpztTS8ePQwDQYJKoZIhvcNAQELBQAwYxCzAJBgvNVBAYTAIMTQw4dDAYDVQI:
-----BEGIN CERTIFICATE-----
MII6zCCA90gAwIBAgIIvYpztTS8ePQwDQYJKoZIhvcNAQELBQAwYxCzAJBgvNVBAYTAIMTQw4dDAYDVQI:
-----BEGIN CERTIFICATE-----
MII6zCCA90gAwIBAgIIvYpztTS8ePQwDQYJKoZIhvcNAQELBQAwYxCzAJBgvNVBAYTAIMTQw4dDAYDVQI:
-----BEGIN CERTIFICATE-----
MII6zCCA90gAwIBAgIIvYpztTS8ePQwDQYJKoZIhvcNAQELBQAwYxCzAJBgvNVBAYTAIMTQw4dDAYDVQI:
-----BEGIN CERTIFICATE-----
MII6zCCA90gAwIBAgIIvYpztTS8ePQwDQYJKoZIhvcNAQELBQAwYxCzAJBgvNVBAYTAIMTQw4dDAYDVQI:
-----BEGIN CERTIFICATE-----
MII6zCCA90gAwIBAgIIvYpztTS8ePQwDQYJKoZIhvcNAQELBQAwYxCzAJBgvNVBAYTAIMTQw4dDAYDVQI:
-----BEGIN CERTIFICATE-----
MII6zCCA90gAwIBAgIIvYpztTS8ePQwDQYJKoZIhvcNAQELBQAwYxCzAJBgvNVBAYTAIMTQw4dDAYDVQI:
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 ==================================================================== */

Found in path(s):
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/modes/ctr.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/modes/ofb.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/modes/internal.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
No license file was found, but licenses were detected in source scan.

/* "grpc/_cython/cygrpc.pyx":1 */
* # Copyright 2015 gRPC authors.               # <<<<<<<<<<<<<<
* # Licensed under the Apache License, Version 2.0 (the "License");
* />

Found in path(s):
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/fipsmodule/modes/gcm.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/fipsmodule/modes/gcm_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/fipsmodule/modes/cbc.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
1.12.1/third_party/boringssl/crypto/fipsmodule/modes/cfb.c

No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib */
Version 1.1, February 14th, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson ( http://result42.com )

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying file LICENSE, version 2000-Apr-09 or later (the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]
The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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*/

Found in path(s):
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/contrib/minizip/unzip.c
No license file was found, but licenses were detected in source scan.

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*
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* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
* 
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* 
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* 4. If you include any Windows specific code (or a derivative thereof) from
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  1.12.1/third_party/boringssl/ssl/ssl_lib.cc
* /opt/cola/permits/1160881901_1620412826.6/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/ssl_cipher.cc
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509/x509_obj.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/bn/shift.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509/x_crl.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include/openssl/hmac.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509/x_attrib.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509/i2d_pr.c

* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/asn1/a_dup.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/decrepit/bio/base64_bio.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/asn1/a_i2d_fp.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/evp/evp_ctx.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/include/openssl/obj.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/asn1/a_print.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509/x509name.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/asn1/x_strex.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/asn1/x509/x509name.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509/by_dir.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/fipsmodule/digest/digest.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509/x_info.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/asn1/tasn_dec.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509/x_strex.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509/x_pubkey.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509/x_朋key.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509/x_strex.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/include/openssl/stack.h

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/boringssl/include/openssl/conf.h
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/boringssl/third_party/googletest/test/gtest_catch_exceptions_test.py

* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest_xml_outfiles_test.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/cares/cares/test/gmock-1.7.0/scripts/fuse_gmock_files.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/boringssl/third_party/googletest/test/gtest_color_test.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/boringssl/third_party/googletest/test/gtest_throw_on_failure_test.py
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  1.12.1/third_party/boringssl/ssl/ssl_file.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1.tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/evp/evp_test.cc
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/*
 *
 * IP-address/hostname to country converter.
 *
 * Problem; you want to know where IP a.b.c.d is located.
 *
 * Use ares_gethostbyname ("d.c.b.a.zz.countries.nerd.dk")
 * and get the CNAME (host->h_name). Result will be:
 * CNAME = zz<CC>.countries.nerd.dk with address 127.0.x.y (ver 1) or
 * CNAME = <a.b.c.d>.zz.countries.nerd.dk with address 127.0.x.y (ver 2)
 *
 * The 2 letter country code is in <CC> and the ISO-3166 country
 * number is in x.y (number = x*256 + y). Version 2 of the protocol is missing
 * the <CC> number.
 *
 * Ref: http://countries.nerd.dk/more.html
 *
 * Written by G. Vanem <gvanem@yahoo.no> 2006, 2007
 *
 * NB! This program may not be big-endian aware.
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  1.12.1/third_party/boringssl/crypto/x509v3/pcy_data.c
- /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509v3/pcy_int.h
- /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509v3/pcy_map.c
- /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509v3/pcy_tree.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_crlid.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/include/openssl/pem.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/obj/obj_dat.h

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/* zpipe.c: example of proper use of zlib's inflate() and deflate()
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   Version 1.4 11 December 2005  Mark Adler */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/zlib/examples/zpipe.c

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  1.12.1/src/core/lib/transport/static_metadata.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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  1.12.1/third_party/boringssl/include/openssl/bn.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/include/openssl/dsa.h
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/s3_lib.cc

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/ssl/test/sslconfig.h
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  1.12.1/third_party/boringssl/crypto/x509v3/v3_pcons.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509v3/v3_ncons.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/x509v3/v3_pmaps.c

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  1.12.1/third_party/boringssl/include/openssl/tls1.h

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*/zutil.c -- target dependent utility functions for the compression library
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/decrepit/cfb/cfb.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/util/bot/extract.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/util/bot/vs_env.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/util/generate-asm-lcov.py

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/* crc32.c -- compute the CRC-32 of a data stream
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 *
 * Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
 * CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
 * tables for updating the shift register in one step with three exclusive-ors
 * instead of four steps with four exclusive-ors. This results in about a
 * factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/zlib/crc32.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/util/(bot/vs_env.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-third_party/boringssl/util/generate-asm-lcov.py

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/* infcover.c -- test zlib's inflate routines with full code coverage
 * Copyright (C) 2011, 2016 Mark Adler
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 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/test/infcover.c
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/* infback9.h -- header for using inflateBack9 functions
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 */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/contrib/infback9/infback9.h
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Metadata-Version: 1.1
Name: grpcio
Version: 1.12.1
Summary: HTTP/2-based RPC framework
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description-Content-Type: UNKNOWN
Description: gRPC Python

==============
Package for gRPC Python.

Installation
-------------

gRPC Python is available for Linux, macOS, and Windows.

From PyPI
~~~~~~~

If you are installing locally...

::

$ pip install grpcio

Else system wide (on Ubuntu)...  

::

$ sudo pip install grpcio

If you're on Windows make sure that you installed the `pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

$ pip.exe install grpcio

Windows users may need to invoke `pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of `pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

From Source
~~~~~~~~~~

Building from source requires that you have the Python headers (usually a package named `python-dev`).

::

$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ cd $REPO_ROOT
$ git submodule update --init

# For the next two commands do `sudo pip install` if you get permission-denied errors
$ pip install -rrequirements.txt
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~

Help, I ...

* **... see a** :code:`pkg_resources.VersionConflict` **when I try to install grpc**

This is likely because :code:`pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

:code:`pip install --ignore-installed $OFFENDINGDEPENDENCY`

For example, if you get an error like the following:

::

```
Traceback (most recent call last):
 File "<string>". line 17, in <module>
 ... 
 File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
 raise VersionConflict(dist, req)
 pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))
```

You can fix it by doing:

::

```
sudo pip install --ignore-installed six
```

* **... see the following error on some platforms**

::

```
/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
 #include "Python.h"
 ^
```
compilation terminated.

You can fix it by installing `python-dev` package. i.e

::

  sudo apt-get install python-dev

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
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  * /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/PKG-INFO
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 */
/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_purp.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3name_test.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_int.c

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  */opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1/third_party/boringssl/crypto/fipsmodule/ec/p256-x86_64.h

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1.12.1/src/core/tsi/cts/crypt/aes_gcm.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/tcp_client.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1-1-tar-gz/grpcio-1.12.1/src/core/lib/iomgr/timer_custom.h
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1-1-tar-gz/grpcio-1.12.1/src/core/ext/filters/http/client_authority_filter.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1.12.1-1-1-tar-gz/grpcio-1.12.1/src/core/tsi/cts/handshaker/alts_handshaker_client.h

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  1.12.1/third_party/boringssl/crypto/x509/rsa_pss.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/evp/p_rsa_asn1.c

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include.openssl/ssl.h

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/* zran.c -- example of zlib/gzip stream indexing and random access
 * Copyright (C) 2005, 2012 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)  13819

Version 1.1  29 Sep 2012  Mark Adler */

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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/examples/zran.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/util/go/env.py
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/util/go/vs_toolchain.py
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/* gzread.c -- zlib functions for reading gzip files
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/zlib/gzread.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_extku.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_prr.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_akey.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/pkcs8/pkcs8.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_enum.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_skey.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509/x509_trs.c
/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509/x509spki.c

/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_akeya.c

/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_bcons.c

/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/x509v3/v3_pku.c

/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/include/openssl/pkcs8.h

/opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-1.12.1/third_party/boringssl/crypto/pkcs8/p5_pbev2.c

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/* adler32.c -- compute the Adler-32 checksum of a data stream
 * Copyright (C) 1995-2011, 2016 Mark Adler
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 */

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 * version 2.3, 21 Jan 2013
 */

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 * Copyright (C) 1995-2017 Mark Adler
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 */

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  1.12.1/third_party/boringssl/ssl/handshake.cc
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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  1.12.1/third_party/boringssl/crypto/dsa/dsa_asn1.c
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* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
  1.12.1/third_party/boringssl/crypto/fipsmodule/aes/aes.c
* /opt/cola/permits/1160881901_1620412826.6/0/grpcio-1-12-1-1-tar-gz/grpcio-
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  1.12.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest_filter_unittest.py
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* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
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*/

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// Inspired by Daniel J. Bernstein's public domain nistp224 implementation
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* inffast.c -- fast decoding
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*
* Dec-29-2003 -- I added AMD64 inflate asm support. This version is also
* slightly quicker on x86 systems because, instead of using rep movsb to copy
* data, it uses rep movsw, which moves data in 2-byte chunks instead of single
* bytes. I've tested the AMD64 code on a Fedora Core 1 + the x86_64 updates
* from http://fedora.linux.duke.edu/ucf_x86_64
* which is running on an Athlon 64 3000+ / Gigabyte GA-K8VT800M system with
* 1GB ram. The 64-bit version is about 4% faster than the 32-bit version,
* when decompressing mozilla-source-1.3.tar.gz.
*
* Mar-13-2003 -- Most of this is derived from inffast.S which is derived from
* the gcc -S output of zlib-1.2.0/inffast.c. Zlib-1.2.0 is in beta release at
* the moment. I have successfully compiled and tested this code with gcc2.96,
* gcc3.2, icc5.0, msvc6.0. It is very close to the speed of inffast.S
* compiled with gcc -DNO_MMX, but inffast.S is still faster on the P3 with MMX
* enabled. I will attempt to merge the MMX code into this version. Newer
* versions of this and inffast.S can be found at
* http://www.eetbeetee.com/zlib/ and http://www.charm.net/~christop/zlib/
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1.1479 pcre 8.32 17.el7
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1.1480 error_prone_annotations 2.4.0

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1.1481 jzlib 1.0.7

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  jar/org/springframework/transaction/reactive/AbstractReactiveTransactionManager.java
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  jar/org/springframework/transaction/support/TransactionOperations.java
* /opt/ws_local/PERMITS_SQL/1068412586_1594388376.83/0/spring-tx-5-2-5-release-sources-1-
  jar/org/springframework/transaction/StaticTransactionDefinition.java
* /opt/ws_local/PERMITS_SQL/1068412586_1594388376.83/0/spring-tx-5-2-5-release-sources-1-
  jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /opt/ws_local/PERMITS_SQL/1068412586_1594388376.83/0/spring-tx-5-2-5-release-sources-1-
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* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/bsd/RCommandClient.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/telnet/TelnetCommand.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/nttp/NNTP.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/nttp/NNTPReply.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/ftp/DefaultFTPFileListParser.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/nttp/NewGroupsOrNewsQuery.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/telnet/TelnetOutputStream.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/ftp/TFTPClient.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/io/DotTerminatedMessageReader.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/nttp/NtpV3Impl.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/time/TimeUDPClient.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-jar/org/apache/commons/net/ftp/FTPFileEntryParserImpl.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/DiscardUDPClient.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/ftp/TFTPPacketException.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/ntp/NtpUtils.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/ftp/FTPFile.java
* opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/ftp/TFTPErrorPacket.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/io/DoTerminatedMessageWriter.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/CharGenUDPClient.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/smtp/SMTP.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/pop3/POP3Client.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/bsd/RExecClient.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/echo/tcpclient/EchoTCPClient.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/time/tcpclient/TimeTCPClient.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/smtp/SMTPConnectionClosedException.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/ProtocolCommandListener.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/io/fromnetASCIIInputStream.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/io/toNetASCIIOutputStream.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/NNTP/NewsgroupInfo.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/socketfactory/SocketFactory.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/ftp/parser/NTFTPEntryParser.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/bsd/RLoginClient.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/ftp/FTPConnectionClosedException.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/ftp/FTPReply.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/ftp/toNetASCIIInputStream.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/smtp/RelayPath.java
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* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/telnet/TelnetNotificationHandler.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/telnet/SuppressGAOptionHandler.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/telnet/InvalidTelnetOptionException.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/telnet/TelnetOptionHandler.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/telnet/TelnetInputStream.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/telnet/TerminalTypeOptionHandler.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1.jar/org/apache/commons/net/telnet/EchoOptionHandler.java
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* List all new newsgroups added to the NNTP server since a particular
  * date subject to the conditions of the specified query. If no new
  * newsgroups were added, a zero length array will be returned. If the
  * command fails, null will be returned.
  * <p>
  * @param query  The query restricting how to search for new newsgroups.
  * @return An array of NewsgroupInfo instances containing the information
  *    for each new newsgroup added to the NNTP server. If no newsgroups
  *    were added, a zero length array will be returned. If the command
  *    fails, null will be returned.
  * @exception NNTPConnectionClosedException
  *      If the NNTP server prematurely closes the connection as a result
  *      of the client being idle or some other reason causing the server
  *      to send NNTP reply code 400. This exception may be caught either
  *      as an IOException or independently as itself.
  * @exception IOException  If an I/O error occurs while either sending a
  *      command to the server or receiving a reply from the server.
  */

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  jar/org/apache/commons/net/ftp/FTPListParseEngine.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-
  jar/org/apache/commons/net/ftp/parser/ParserInitializationException.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-
  jar/org/apache/commons/net/ftp/parser/CompositeFileEntryParser.java
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  jar/org/apache/commons/net/ftp/parser/OS400FTPEntryParser.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-
  jar/org/apache/commons/net/ftp/parser/FTPFileEntryParserFactory.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-
  jar/org/apache/commons/net/ftp/parser/DefaultFTPFileEntryParserFactory.java
* /opt/cola/permits/1136474281_1613772384.01/0/commons-net-1-4-1-sources-1-
  jar/org/apache/commons/net/ftp/parser/RegexFTPFileEntryParserImpl.java

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*/
/**
* Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
*/
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* Allowing them being read would mean anyone with access to the channel could get them.
*/

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* Allowing them being read would mean anyone with access to the channel could get them.
* /
**
* Set the { @code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
* for more details.
*/
1.1493 jackson-databind 2.11.4

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1.1494 x-text v0.3.5

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* /opt/cola/permits/1150250048_1627682089.17/0/wildfly-elytron-password-impl-1-10-3-final-sources-
  jar/org/wildfly/security/password/impl/MaskedPasswordAlgorithmParametersSpiImpl.java
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  jar/org/wildfly/security/password/impl/DigestUtil.java
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* /opt/cola/permits/1150250048_1627682089.170/wildfly-elytron-password-impl-1-10-3-final-sources-jar/org/wildfly/security/password/impl/PasswordFactorySpiImpl.java
* /opt/cola/permits/1150250048_1627682089.170/wildfly-elytron-password-impl-1-10-3-final-sources-jar/org/wildfly/security/password/impl/ScramPasswordImpl.java
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1.1504 jersey 2.29.1

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/**
* Set the max pool size of the ThreadPoolExecutor.
* <p><strong>NOTE:</strong> 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].
*/

Found in path(s):
* /opt/cola/permits/1136839402_1613931268.67/0/spring-messaging-5-2-2-release-sources-2-
  jar/org/springframework/messaging/simp/config/TaskExecutorRegistration.java

1.1508 spring-expression 5.2.5.RELEASE
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  jar/org/springframework/expression/spel/InternalParseException.java

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  jar/org/springframework/expression/spel/standard/TokenKind.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-
  jar/org/springframework/expression/MethodFilter.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-
  jar/org/springframework/expression/EvaluationException.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-
  jar/org/springframework/expression/ConstructorResolver.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-
  jar/org/springframework/expression/TypeLocator.java
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  jar/org/springframework/expression/spel/ast/Assign.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/InlineList.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/Ternary.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/ValueRef.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/NullLiteral.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/TypeReference.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/TypeCode.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/VariableReference.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/OpModulus.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/Selection.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/StringLiteral.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/OpMultiply.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/OpAnd.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/IntLiteral.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/Elvis.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/OpGT.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/OperatorPower.java
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* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/FunctionReference.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1.jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
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* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/support/TemplateAwareExpressionParser.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
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* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/SpelParserConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
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  jar/org/springframework/expression/MethodExecutor.java
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  jar/org/springframework/expression/ConstructorExecutor.java
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* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-
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* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc/okhttp/internal/OkHostnameVerifier.java
* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc/okhttp/internal/OptionalMethod.java
* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc/okhttp/internal/DistinguishedNameParser.java
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* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc-okhttp/ExceptionHandlingFrameWriter.java
* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc-okhttp/AsyncSink.java
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* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc-okhttp/internal/ConnectionSpec.java
* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc-okhttp/internal/CipherSuite.java
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* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc-okhttp/internal/framed/HeadersMode.java
* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc-okhttp/internal/framed/Hpack.java
* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc-okhttp/internal/framed/ErrorCode.java
* /opt/cola/permits/1162588950_1620864787.71/0/grpc-okhttp-1-20-0-sources-jar/io/grpc-okhttp/internal/framed/Variant.java

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1.1520 kmod 20 28.el7

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* /opt/ws_local/PERMITS_SQL/1063377540_1592971879.33/0/netty-buffer-4-1-43-final-sources-1-jar/io/netty/buffer/UnreleasableByteBuf.java
* /opt/ws_local/PERMITS_SQL/1063377540_1592971879.33/0/netty-buffer-4-1-43-final-sources-1-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1063377540_1592971879.33/0/netty-buffer-4-1-43-final-sources-1-jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/ws_local/PERMITS_SQL/1063377540_1592971879.33/0/netty-buffer-4-1-43-final-sources-1-jar/io/netty/buffer/AbstractDerivedByteBuf.java
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1.1533 jersey-media-sse 2.6

1.1534 plexus-archiver 2.1

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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources.jar/springfox/documentation/spring/web/readers/parameter/ParameterMultiplesReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources.jar/springfox/documentation/spring/web/scanners/ApiListingReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources.jar/springfox/documentation/spring/web/paths/PathSanitizer.java
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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/PathMappingAdjuster.java
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automatically generated with the moman/finenight FSA library, created by
Jean-Philippe Barrette-LaPierre. This library is available under an MIT license,
see http://sites.google.com/site/rrettesite/moman and
http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0.
See http://code.google.com/p/google-code-prettify/
JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
See http://junit.sourceforge.net/cpl-v10.html

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/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.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

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.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

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mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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mecab-ko-dic-2.0.3-20170922

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 */
/**
 * Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
 *
 * @param messageContext the current message context
 *
 * @return true if the encoder provides end-to-end message confidentiality, false if not
 *
 * @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
 * ability to provide message confidentiality.
 */

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The OASIS Web Services Security: SOAP Message Security 1.1 (WS-Security 2004) specification describes enhancements to SOAP messaging to provide message integrity and confidentiality. This specification also provides a general-purpose mechanism for associating security tokens with message content.

The security token profiles currently supported are:

- Web Services Security UsernameToken Profile 1.1
- Web Services Security: SAML Token Profile 1.1
- Web Services Security X.509 Certificate Token Profile 1.1
- Web Services Security Kerberos Token Profile 1.1

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 */

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 */

* @return whether the transport represents a confidential connection
*/

/**
 * Sets whether the transport represents a confidential connection.
 */

* @param isConfidential whether the transport represents a confidential connection
*/

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jar/org/opensaml/ws/transport/BaseTransport.java

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* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/schema/ws-trust-1.3.xsd
1.1542 spring-boot-starter-json

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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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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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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---
tear down:
  - do:
    license.post:
      acknowledge: true
      body: |
        {"licenses":[]}

"Installing and getting license works":

```yaml
## current license version
- do:
  license.post:
    acknowledge: true
    body: |

    "licenses": [{
      "uid": "894371dc-9t49-4997-93cb-
802e357faa8", "type": "trial", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1916956799999, "max_nodes": 1, "issued_to": "issuedTo", "issuer": "issuer", "signature": "AAAAAgAAAA0FWh0T9njItjQ2qammmAAABMc 9Z8N0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpVbTVoMVZwUxRvxiP5mxkaxzDzW5IMlhITHNoN1N2MXM
vRfk4d3JITZE3x3R3RZ0pzU3lobWVkJZnQvSEFvam0pTHBkWkprrZWZSQt9NiNmRQNKw1SlPaLN0DaZCS095M
XRGN11IzLpyCvYTTHfTeC2zhJZmQzDFoR4N3QjGreGwxb0U0MXZl0dJHHERiZTVLHOnzSDKyWnpoZEpZH
BEZjUrTVBxRENNSXN5WJjZlJaODdzVMznEjUINiWktNWGM5TUU4V2pAuOuQ1JOuml4MNXuL0pSOehQa
VB2zahnUK9QVzhFeFToyM1Q0RnxJ5SG53Mw2K055c28zSmRnVkJl2JSQkFL2VXUmVHNZDZ3o2VE1q
bVQNQ21sOHNN5bUErZINWkZSmZWZmljVWg2SU9wRTJTENDvTV1NXYkIlaUCUyK2FwKW9xan06iddBmMzSGQ
c3FWOTgZ3ZUcXMvQkt2RUZwMFJnzZlVL2d2bDRUwzh6UG5pdENGWFRrENGXKNE9PQAAABZhvzoA0
trrxhUZlQbTSkTna95KVQ66v8yg1psnpBpZIcI8KX1srg0FnlxQ61lJwfw5qmmYniH3hRTO9EyaCBqaLk
NXrZQ6TrQRqEnmpAYUkZeKXsuB0Ok4B4mzwC/r8aMAkrzrIETBtBog+57cSaU9y37Gdkd+i1jXQXrP+jO
EUl7gnXWZvE6oeRROvLcV1fYn09kOF8kKTktPTScJ6igZR3uYTHyee74XQ9PRavvHax737T3U0EdQZX/P1ibS
QlWkbBRD5YQ1POYVjTayoltWmxfEcAkkA1TZLhpBEHST7kZWjRTS6J1dCREc7a8Vs/j78HXvOly"
}]

- match: { license_status: "valid" }

- do:
  license.get: {}

## the rest API defaults to a v4 license output with 11 attributes
- length: { license: 11 }

## bwc for licenses format
- do:
  license.post:
    acknowledge: true
    body: |

    "licenses": [{
      "uid": "893361dc-9749-4997-93cb-
802e357faa8", "type": "gold", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1914278399999, "ma
x_nodes": 1, "issued_to": "issuedTo", "issuer": "issuer", "signature": "AAAAAwAAAA2T3vqdBBetKQaBgxipAAABmC
9Z8N0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpVbTVoMVZwUxRvxiP5mxkaxzDzW5IMlhITHNoN1N2MXM
vRfk4d3JITZE3x3R3RZ0pzU3lobWVkJZnQvSEFvam0pTHBkWkprrZWZSQt9NiNmRQNKw1SlPaLN0DaZCS095M
XRGN11IzLpyCvYTTHfTeC2zhJZmQzDFoR4N3QjGreGwxb0U0MXZl0dJHHERiZTVLHOnzSDKyWnpoZEpZH
BEZjUrTVBxRENNSXN5WJjZlJaODdzVMznEjUINiWktNWGM5TUU4V2pAuOuQ1JOuml4MNXuL0pSOehQa
VB2zahnUK9QVzhFeFToyM1Q0RnxJ5SG53Mw2K055c28zSmRnVkJl2JSQkFL2VXUmVHNZDZ3o2VE1q
bVQNQ21sOHNN5bUErZINWkZSmZWZmljVWg2SU9wRTJTENDvTV1NXYkIlaUCUyK2FwKW9xan06iddBmMzSGQ
c3FWOTgZ3ZUcXMvQkt2RUZwMFJnzZlVL2d2bDRUwzh6UG5pdENGWFRrENGXKNE9PQAAABZhvzoA0
trrxhUZlQbTSkTna95KVQ66v8yg1psnpBpZIcI8KX1srg0FnlxQ61lJwfw5qmmYniH3hRTO9EyaCBqaLk
NXrZQ6TrQRqEnmpAYUkZeKXsuB0Ok4B4mzwC/r8aMAkrzrIETBtBog+57cSaU9y37Gdkd+i1jXQXrP+jO
EUl7gnXWZvE6oeRROvLcV1fYn09kOF8kKTktPTScJ6igZR3uYTHyee74XQ9PRavvHax737T3U0EdQZX/P1ibS
QlWkbBRD5YQ1POYVjTayoltWmxfEcAkkA1TZLhpBEHST7kZWjRTS6J1dCREc7a8Vs/j78HXvOly"
}]
```
### license version: 1.x

- do:
  
  license.post:

  acknowledge: true

  body: |

  ```json
  {{"licenses":[]}}
  ```

- match: { license_status: "valid" }

### multiple licenses version: 1.x

- do:
  
  license.post:

  acknowledge: true

  body: |

  ```json
  {{"licenses":[]}}
  ```

- match: { license_status: "valid" }

- length: { license: 11 }
{"licenses":[{"uid":"893361dc-9749-4997-93cb802e3d7fa4a8","type":"internal","subscription_type":"none","issue_date_in_millis":1411948800000,"feature":"shiel
d","expiry_date_in_millis":1440892799999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"A
AAAAQAAAA04Q4ky3rFyyWLFkytEAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZw
UzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkW
kprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1lIZlpYcVVTTnFrcTE2dzhJZmZrdFQrN3JQeGwxb0U0
MXZ0dDJHSERiZTVLOHNzSDByWnpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNW
GM5TUhQV2plaUo4Q1JOUml4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28z
SmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZlNIWkZSVmZIWEtaSU9wTTJEND
VvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUz
h6UG5pdENGWFRreXNKNkE9PQAAAQBxMvUMn4h2E4R4TQMijahTxQj4LPQO4f1M79UxX/XkDlGcH+J5p
RHx08OtTRPsFL1lED+h+PIXx307Vo+PNDsOxrWvoYZeYBkOLAO3ny9vhQga+52jYhMxIuFrT9xbcSCSNpMh
GojgOIPU2WgiopVdVcimo1+Gk8VtklPB1wPwFzfOjOnPgp/Icx3WYpfkeAUUOyWUYiFIBAe4bnz84iF+xwLKb
gYk6aHF25ECBtdb/Uruhcm9+jEFpoIEUtCouvvk9C+NJZ4OickV4xpRgaRG2x9PONH8ZN0QGhGYhJGbisoCxu
DmlLsyVxqxfMu3n/r7/jdsEJScjAlSrsLDOu6H"},{"uid":"893361dc-9749-4997-93cb802e3dofh7aa","type":"internal","subscription_type":"none","issue_date_in_millis":1443484800000,"feature":"watc
her","expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"
AAAAAQAAAA0Sc90guRIaQEmgLvMnAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMV
ZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHB
kWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1lIZlpYcVVTTnFrcTE2dzhJZmZrdFQrN3JQeGwxb0
U0MXZ0dDJHSERiZTVLOHNzSDByWnpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktN
WGM5TUhQV2plaUo4Q1JOUml4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c2
8zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZlNIWkZSVmZIWEtaSU9wTTJEN
DVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRW
Uzh6UG5pdENGWFRreXNKNkE9PQAAAQCQ94dju0pnDZR3Uuypi0ic3aQJ+nvVqe+U8u79Dga5n1qIjcHDh7H
vIBJEkF+tnVPlo/PXV/x7BZSwVY1PVErit+6rYix1yuHEgqwxmx/VdRICjCaZM6tk0Ob4dZCPv6Ebn2Mmk89KH
C/PwiLPqF6QfwV/Pkpa8k2A3ORJmvYSDvXhe6tCs8dqc4ebrsFxqrZjwWh5CZSpzqqZBFXlngDv2N0hHhpGlueR
szD0JJ5dfEL5ZA1DDOrgO9OJVejSHyRqe1L5QRUNdXPVfS+EAG0Dd1cNdJ/sMpYCPnVjbw6iq2/YgM3cuztsX
VBY7ij4WnoP3ce7Zjs9TwHn+IqzftC6"}]}
- match: { license_status: "valid" }
- do:
license.get: {}
- length: { license: 11 }
- match: { license.uid: "893361dc-9749-4997-93cb-802e3dofh7aa" }
--"Should throw 404 after license deletion":
- do:
license.delete: {}
- match: { acknowledged: true }
- do:
license.get: {}
catch: missing

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 14316


"Should install a feature type license":

```bash
# VERSION_NO_FEATURE_TYPE license version
- do:
  license.post:
    acknowledge: true
    body: |
      "license": {
        "uid": "893361dc-9749-4997-93cb-802ec3d7fa4a8",
        "type": "gold",
        "issue_date_in_millis": "1411948800000",
        "expiry_date_in_millis": "1914278399999",
        "max_nodes": 1,
        "issued_to": "issued_to",
        "issuer": "issuer",
        "signature": "AAAAAgAAAA3U8+YmnnwC+CWSV+mRAMA
BMc9ZNRohjZDBBYmVRxPCOW5Bb3fJZDAXOWpSTVOMvZuwuRxK1PsMxkaxxZw5IuHf75HnoN1N02MXMvRFe4d3J7EZ
x3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWSQt9iNnRQknwL1SpLN0lDalZCS095MXRGN1IIZIyVcYVTNTreT2dzhZmZrdFQrN3QeGwxb0U0MXZ0dDJHSEIrZTVLOHNzSDByWnpoZ
EphZHBZeJUrTVBxRENNSXxNSWJZlFzlaO0dzVmExUjNiWktrNG55MTuhQV2plaUo4Q1JOUm4MXUN0L0S
OEhQaVB2aZhmUk9QVzhFeFtMo1JQ0RnlXSIG35MwK2K055c28zSrnVklb2J5QkFLV2VXUmVHNDZ2R302V14q
vNVQS21xtOH5n5bUrZINlWk5ZSvmZTWeUu9wTtJENyT1NCTyKlucUyYK2FwRW9xal6dMbnMzSgTqC3FWOTgU3ZUcXvMqkt2RUZmFJnZzvlL2d2bDRWohU6UG5pdENGWFReXKNNkE9PQAQQs8eGfzDm6T37Iluuvjetb3xK5dvO9K5NQapv+rcZwCfXgCuzbF8plkgPflaAGZP4uRESDQPMIOcxx4d0UqAm97tGBQ3I9394+PogInPeEh9NvOmaQOVmxVM956E5sDq1x4xC5O+bgWpXpTt2LmopQc1fXdbZ8GeuyYp
VHVKp9hUv0tyAyiwe6HfYOE77zunOlJyOexLq66AnIhFrivn+i+flym3E77dTgs7Rw3iBfaqiSmQhEfvKHDPhQdSR99XGaEvnhO1paK01/35iZFdOXHsF7CCj+558GRXiVxzoeC7TsGSS8g7YjZwV9bRcCyU0b4B/nidgG"}

- match: { license_status: "valid" }
- do:
  license.get: {}
- length: { license: 11 }
---
"Cannot start basic":
- do:
  catch: bad_request
  license.post:
    acknowledge: true
    body: |
      "license": {
        "uid": "893361dc-9749-4997-93cb-802ec3d7fa4a8", 
        "type": "basic", 
        "issue_date_in_millis": "1411948800000", 
        "expiry_date_in_millis": "1914278399999", 
        "max_nodes": 1, 
        "issued_to": "issued_to", 
        "issuer": "issuer", 
        "signature": "AAAAAgAAAA3U8+YmnnwC+CWSV+mRAMA
BMc9ZNRohjZDBBYmVRxPCOW5Bb3fJZDAXOWpSTVOMvZuwuRxK1PsMxkaxxZw5IuHf75HnoN1N02MXMvRFe4d3J7EZ
x3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWSQt9iNnRQknwL1SpLN0lDalZCS095MXRGN1IIZIyVcYVTNTreT2dzhZmZrdFQrN3QeGwxb0U0MXZ0dDJHSEIrZTVLOHNzSDByWnpoZ
EphZHBZeJUrTVBxRENNSXxNSWJZlFzlaO0dzVmExUjNiWktrNG55MTuhQV2plaUo4Q1JOUm4MXUN0L0S
OEhQaVB2aZhmUk9QVzhFeFtMo1JQ0RnlXSIG35MwK2K055c28zSrnVklb2J5QkFLV2VXUmVHNDZ2R302V14q
vNVQS21xtOH5n5bUrZINlWk5ZSvmZTWeUu9wTtJENyT1NCTyKlucUyYK2FwRW9xal6dMbnMzSgTqC3FWOTgU3ZUcXvMqkt2RUZmFJnZzvlL2d2bDRWohU6UG5pdENGWFReXKNNkE9PQAQQs8eGfzDm6T37Iluuvjetb3xK5dvO9K5NQapv+rcZwCfXgCuzbF8plkgPflaAGZP4uRESDQPMIOcxx4d0UqAm97tGBQ3I9394+PogInPeEh9NvOmaQOVmxVM956E5sDq1x4xC5O+bgWpXpTt2LmopQc1fXdbZ8GeuyYp
VHVKp9hUv0tyAyiwe6HfYOE77zunOlJyOexLq66AnIhFrivn+i+flym3E77dTgs7Rw3iBfaqiSmQhEfvKHDPhQdSR99XGaEvnhO1paK01/35iZFdOXHsF7CCj+558GRXiVxzoeC7TsGSS8g7YjZwV9bRcCyU0b4B/nidgG"}
```

- match: { license_status: "valid" }
- do:
  license.get: {}
- length: { license: 11 }
---
"Cannot start basic":
- do:
  catch: bad_request
  license.post:
    acknowledge: true
    body: |
      "license": {
        "uid": "893361dc-9749-4997-93cb-802ec3d7fa4a8", 
        "type": "basic", 
        "issue_date_in_millis": "1411948800000", 
        "expiry_date_in_millis": "1914278399999", 
        "max_nodes": 1, 
        "issued_to": "issued_to", 
        "issuer": "issuer", 
        "signature": "AAAAAgAAAA3U8+YmnnwC+CWSV+mRAMA
BMc9ZNRohjZDBBYmVRxPCOW5Bb3fJZDAXOWpSTVOMvZuwuRxK1PsMxkaxxZw5IuHf75HnoN1N02MXMvRFe4d3J7EZ
x3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWSQt9iNnRQknwL1SpLN0lDalZCS095MXRGN1IIZIyVcYVTNTreT2dzhZmZrdFQrN3QeGwxb0U0MXZ0dDJHSEIrZTVLOHNzSDByWnpoZ
EphZHBZeJUrTVBxRENNSXxNSWJZlFzlaO0dzVmExUjNiWktrNG55MTuhQV2plaUo4Q1JOUm4MXUN0L0S
OEhQaVB2aZhmUk9QVzhFeFtMo1JQ0RnlXSIG35MwK2K055c28zSrnVklb2J5QkFLV2VXUmVHNDZ2R302V14q
vNVQS21xtOH5n5bUrZINlWk5ZSvmZTWeUu9wTtJENyT1NCTyKlucUyYK2FwRW9xal6dMbnMzSgTqC3FWOTgU3ZUcXvMqkt2RUZmFJnZzvlL2d2bDRWohU6UG5pdENGWFReXKNNkE9PQAQQs8eGfzDm6T37Iluuvjetb3xK5dvO9K5NQapv+rcZwCfXgCuzbF8plkgPflaAGZP4uRESDQPMIOcxx4d0UqAm97tGBQ3I9394+PogInPeEh9NvOmaQOVmxVM956E5sDq1x4xC5O+bgWpXpTt2LmopQc1fXdbZ8GeuyYp
VHVKp9hUv0tyAyiwe6HfYOE77zunOlJyOexLq66AnIhFrivn+i+flym3E77dTgs7Rw3iBfaqiSmQhEfvKHDPhQdSR99XGaEvnhO1paK01/35iZFdOXHsF7CCj+558GRXiVxzoeC7TsGSS8g7YjZwV9bRcCyU0b4B/nidgG"}
```
- match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST /_license/start_basic API to install a basic license that does not expire.' }

---

"Should fail gracefully when body content is not provided":

- do:
  catch: bad_request
  license.post:
    acknowledge: true

- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }

---

"Current license is trial means not eligible to start trial":

- do:
  license.get_trial_status: {}

- match: { eligible_to_start_trial: false }

- do:
  license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }

- do:
  license.get_trial_status: {}

- match: { eligible_to_start_trial: false }

- do:
  license.post_start_trial:
    acknowledge: true

- match: { trial_was_started: false }

- match: { error_message: "Operation failed: Trial was already activated." }

---

"Trial license cannot be basic":

- do:
  catch: bad_request
  license.post_start_trial:
    type: "basic"
acknowledge: true
---
"Can start basic license if do not already have basic":
- do:
  license.get_basic_status: {}

- match: { eligible_to_start_basic: true }

- do:
  license.post_start_basic:
    acknowledge: true

  - match: { basic_was_started: true }
  - match: { acknowledged: true }

  - do:
    license.get_basic_status: {}

  - match: { eligible_to_start_basic: false }
  - do:
    catch: forbidden

    - match: { basic_was_started: false }
    - match: { acknowledged: true }
    - match: { error_message: "Operation failed: Current license is basic." }

---
"Must acknowledge to start basic":
- do:
  license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: false }
- match: { error_message: "Operation failed: Needs acknowledgement." }

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---

"Installing enterprise license":

## current license version
- do:
  license.post:
    acknowledge: true
body: |
    { "uid": "6e57906b-a8d1-4c1f-acb7-73a16edc3934", "type": "enterprise", "issue_date_in_millis": 1523456691721, "expiry_date_in_millis": 1838816691721, "max_nodes": null, "max_resource_units": 50, "issued_to": "rest-test", "issuer": "elasticsearch", "signature": "AAAABQAAAA0sKPJdf9T6DItbXVJKAAAAIAo5/x6hrsGh1GqqrJmy4qgmEC7gK0U4zQ6q5ZEHm4jAAABAKFCHrix7w/xPGI4+wdhld1RmphDmXmHfl1xeluI33Ahr1mOUYZ30eR6GZuh7cnK8BQhfq+z63lgctJepWlvwDSgkOvXWLHrJun7YSCrzz1bism0ZHWw7Swb9DO7vePomVBo/Hm9+eX0pV4/cFQNmbFaX11tqZYZBE06sNASVAF7A1ZcVoB2evveGU9pUQYvFvmyzzySf99miD03NH0XYdownEdt0NgFmqa3+koCP7onnRZ1h9jhsDOi30RX/DTDXQKW+XoREnOHCoOAIfxwip/c1qaQAOqp1H6+P20ZGr2sIpiu97OVEU9kulm+E+jgiVW3LwGheOXsUOd1B8Mp0=","start_date_in_millis":-1 } }

- match: { license_status: "valid" }

- do:
  license.get: {}

## a v4 (7.X compatible) license object has 11 attributes
- length: { license: 11 }

## by default the enterprise license is "platinum", and return "max_nodes"
- match: { license.type: "platinum" }
- match: { license.max_nodes: 50 }

- do:
  license.get:
    accept_enterprise: "true"

## a v5 license object has 12 attributes
- length: { license: 12 }

## opt-in to return real enterprise type
- match: { license.type: "enterprise" }
- match: { license.max_resource_units: 50 }
- match: { license.max_nodes: null }

- do:
  license.get:
    accept_enterprise: "false"

## a v4 license object has 11 attributes
- length: { license: 11 }

## opt-out of real enterprise type
- match: { license.type: "platinum" }
- match: { license.max_nodes: 50 }

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[role="xpack"]
[testenv="basic"]
[[delete-license]]

```=== Delete license API
++++
<titleabbrev>Delete license</titleabbrev>
++++

This API enables you to delete licensing information.

[float]
==== Request

'DELETE /_license'

[float]
==== Description

When your license expires, [xpack} operates in a degraded mode. For more
information, see
[kibana-ref]/managing-licenses.html#license-expiration[License expiration].
Authorization

You must have `manage` cluster privileges to use this API. For more information, see <<security-privileges>>.

Examples

The following example queries the info API:

[source,console]
DELETE /_license

When the license is successfully deleted, the API returns the following response:

[source,js]

```json
{
  "acknowledged": true
}
```

The license can be deleted using the `deleteLicense()` method:

```java
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-execute]
```

The returned `DeleteLicenseResponse` contains the `acknowledged` flag, which returns true if the request was processed by all nodes.

```java
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-response]```
Check the acknowledge flag. It should be true if license deletion is acknowledged.

```java
[[java-rest-high-delete-license-async]]
```

Asynchronous Execution

This request can be executed asynchronously:

```java
["source","java",subs="attributes,callouts,macros"]
```

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `DeleteLicenseResponse` looks like:

```java
["source","java",subs="attributes,callouts,macros"]
```

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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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[role="xpack"]
[testenv="basic"]
[[get-license]]

```
=== Get license API
++++
<titleabbrev>Get license</titleabbrev>
++++

This API enables you to retrieve licensing information.

[ifloat]
==== Request

`GET /_license`

[ifloat]
==== Description

This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.
Query Parameters

`local`:
(boolean) Specifies whether to retrieve local information. The default value is `false`, which means the information is retrieved from the master node.

Authorization

You must have `monitor` cluster privileges to use this API.
For more information, see <<security-privileges>>.

Examples

The following example provides information about a trial license:

[source,console]
-------------------
GET /_license
-------------------

[source,console-result]
-------------------
{
  "license": {
    "status": "active",
    "uid": "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
    "type": "trial",
    "issue_date": "2018-10-20T22:05:12.332Z",
    "issue_date_in_millis": 1540073112332,
    "expiry_date": "2018-11-19T22:05:12.332Z",
    "expiry_date_in_millis": 1542665112332,
    "max_nodes": 1000,
    "issued_to": "test",
    "issuer": "elasticsearch",
    "start_date_in_millis": -1
  }
}
-------------------

// TESTRESPONSE[s/"cbff45e7-c553-41f7-ae4f-9205eabd80xx"/$body.license.uid/]
// TESTRESPONSE[s/"basic"/$body.license.type/]
// TESTRESPONSE[s/"2018-10-20T22:05:12.332Z"/$body.license.issue_date/]
// TESTRESPONSE[s/1540073112332/$body.license.issue_date_in_millis/]
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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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```java
=== Get License
```

The license can be added or updated using the `getLicense()` method:

```java
"source", "java", subs="attributes,callouts,macros"
```

```java
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[get-license-execute]
```

```java
=== Response
```

The returned `GetLicenseResponse` contains the license in the JSON format.

```java
"source", "java", subs="attributes,callouts,macros"
```

```java
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[get-license-response]
```

```java
<1> The text of the license.
```

```java
=== Asynchronous Execution
```

This request can be executed asynchronously:

```java
"source", "java", subs="attributes,callouts,macros"
```

```java
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[get-license-execute-async]
```

```java
<1> The `GetLicenseRequest` to execute and the `ActionListener` to use when
the execution completes
```

The asynchronous method does not block and returns immediately. Once it is
completed the `ActionListener` is called back using the `onResponse` method
if the execution successfully completed or using the `onFailure` method if
it failed.

A typical listener for `GetLicenseResponse` looks like:

```java
"source", "java", subs="attributes,callouts,macros"
```

```java
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[get-license-execute-listener]
```
<1> Called when the execution is successfully completed. The response is provided as an argument
<2> Called in case of failure. The raised exception is provided as an argument

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Updates the license for your {es} cluster.

`PUT _license`

`POST _license`

If {es} {security-features} are enabled, you need `manage` cluster privileges to install the license.

If {es} {security-features} are enabled and you are installing a gold or platinum license, you must enable TLS on the transport networking layer before you install the license. See <<configuring-tls>>.

You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see
https://www.elastic.co/subscriptions.

[[update-license-api-query-params]]
==== [api-query-params-title]

`acknowledge`::
(Optional, boolean)
Specifies whether you acknowledge the license changes. The default value is `false`.

[[update-license-api-request-body]]
==== [api-request-body-title]

`licenses`::
(Required, array)
A sequence of one or more JSON documents containing the license information.

[[update-license-api-example]]
==== [api-examples-title]

The following example updates to a basic license:

[source,console]
-------------------------------------------------------------
PUT _license
{
  "licenses": [ 
    { 
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx", 
      "type": "basic", 
      "issue_date_in_millis": 1411948800000, 
      "expiry_date_in_millis": 1914278399999, 
      "max_nodes": 1, 
      "issued_to": "issuedTo", 
      "issuer": "issuer", 
      "signature": "xx" 
    } 
  ]
}
-------------------------------------------------------------

// TEST[skip:license testing issues]

NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can also install your license file using a `curl` command. Be sure to add `@` before the license file path to instruct `curl` to treat it as an input file.
curl -XPUT -u <user> 'http://<host>:<port>/_license' -H "Content-Type: application/json" -d @license.json

// NOTCONSOLE

On Windows, use the following command:

Invoke-WebRequest -uri http://<host>:<port>/_xpack/license -Credential elastic -Method Put -ContentType "application/json" -InFile .\license.json

In these examples,

* `<user>` is a user ID with the appropriate authority.
* `<host>` is the hostname of any node in the {es} cluster ("localhost" if executing locally)
* `<port>` is the http port (defaults to `9200`)
* `license.json` is the license JSON file

NOTE: If your {es} node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you receive the following response:

```javascript
{
   "acknowledged": false,
   "license_status": "valid",
   "acknowledge": {
      "message": "This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the "acknowledge=true" parameter."",
      "watcher": [
         "Watcher will be disabled"
      ],
      "logstash": [
         "Logstash will no longer poll for centrally-managed pipelines"
      ],
      "security": [
         "The following X-Pack security functionality will be disabled: ...
      ]
   }
}
```

// NOTCONSOLE
To complete the update, you must re-submit the API request and set the `acknowledge` parameter to `true`. For example:

[source,console]
```
PUT _license?acknowledge=true
{
 "licenses": [
  {
   "uid":"893361dc-9749-4997-93cb-802e3d7fa4xx",
   "type":"basic",
   "issue_date_in_millis":1411948800000,
   "expiry_date_in_millis":1914278399999,
   "max_nodes":1,
   "issued_to":"issuedTo",
   "issuer":"issuer",
   "signature":"xx"
  }
  ]
}
```

// TEST[skip:license testing issues]

Alternatively:

[source,sh]
```
curl -XPUT -u elastic 'http://<host>:<port>/_license?acknowledge=true' -H "Content-Type: application/json" -d @license.json
```

// NOTCONSOLE

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The license can be added or updated using the `putLicense()` method:

```java
"source", "java", subs="attributes,callouts,macros"
--------------------------------------------------
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[put-license-execute]
--------------------------------------------------

<1> Set the categories of information to retrieve. The default is to return no information which is useful for checking if {xpack} is installed but not much else.

<2> A JSON document containing the license information.

The returned `PutLicenseResponse` contains the `LicensesStatus`, `acknowledged` flag and possible acknowledge messages. The acknowledge messages are present if you previously had a license with more features than one you are trying to update and you didn't set the `acknowledge` flag to `true`. In this case you need to display the messages to the end user and if they agree, resubmit the license with the `acknowledge` flag set to `true`. Please note that the request will still return a 200 return code even if requires an acknowledgement. So, it is necessary to check the `acknowledged` flag.

```java
"source", "java", subs="attributes,callouts,macros"
--------------------------------------------------
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[put-license-response]
--------------------------------------------------

<1> The status of the license
<2> Make sure that the license is valid.
<3> Check the acknowledge flag. It should be true if license is acknowledged.
<4> Otherwise we can see the acknowledge messages in `acknowledgeHeader()`
<5> and check component-specific messages in `acknowledgeMessages()`.

This request can be executed asynchronously:

```java
"source", "java", subs="attributes,callouts,macros"
--------------------------------------------------
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[put-license-execute-async]
--------------------------------------------------
The `PutLicenseRequest` to execute and the `ActionListener` to use when the execution completes.

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `PutLicenseResponse` looks like:

```java
["source","java",subs="attributes,callouts,macros"]
--------------------------------------------------
include-tagged::{doc-tests}/LicensingDocumentationIT.java
--------------------------------------------------
```

<1> Called when the execution is successfully completed. The response is provided as an argument
<2> Called in case of failure. The raised exception is provided as an argument

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- analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
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- analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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

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

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

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 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See {@link WebSession}
 * for more details.
 */

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* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-
  jar/org/springframework/web/HttpMediaTypeException.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-
  jar/org/springframework/http/server/ServerHttpResponse.java
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* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-
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* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-
  jar/org/springframework/web/bind/annotation/InitBinder.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-
  jar/org/springframework/web/util/IntrospectorCleanupListener.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-
  jar/org/springframework/web/context/ConfigurableWebEnvironment.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-
  jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-
  jar/org/springframework/web/bind/ServletRequestBindingException.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-
  jar/org/springframework/http/MediaTypeEditor.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-
Found in path(s):
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/remoting/htpinvoke/HttpInvokerClientConfiguration.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/http/client/AbstractClientHttpResponse.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/bind/annotation/ValueConstants.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/bind/support/SimpleSessionStatus.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/context/request/async/TimeoutDeferredResultProcessingInterceptor.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/context/request/FacesWebRequest.java

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* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/context/request/WebRequestInterceptor.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/server/WebHandler.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/http/client/ClientHttpRequestExecution.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/context/request/AsyncRequestTimeoutException.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/context/async/AsyncRequestTimeoutException.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/context/annotation/ApplicationScope.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/context/annotation/RequestScope.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/bind/annotation/PatchMapping.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/bind/support/WebBindingInitializer.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/bind/annotation/PutMapping.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/context/session/WebSessionManager.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/context/server/WebSessionIdResolver.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/bind/annotation/SessionAttribute.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/remoting/httpinvoker/HttpInvokerRequestExecutor.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources.jar/org/springframework/web/bind/annotation/CookieValue.java
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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
#
# MIME type (lowercased)Extensions
# ==================================================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointprop+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/applixwareaw
# application/atf
# application/atfx
application/atom+xml
# application/atomcat+xml
application/atomcat+xml
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml
# application/axml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtpp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccomp+xml
application/ccxml+xml
# application/cdx+xml
application/cdmi-capability+xml
application/cdmi-container+xml
application/cdmi-domain+xml
application/cdmi-object+xml
application/cdmi-queue+xml
# application/cdni
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cms
# application/cnrp+xml
# application/coap-group+json
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/cstadata+xml
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream	bind
dms
dlrf
dist
distz
pkg
dump
elc
deploy
application/oda
# application/odx
application/oebps-package+xml
application/ogg
application/omdoc+xml
application/oneote
oneote2
onetoc
onetoc
onepkg
application/oxps
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xml
application/pdf
# application/pdx
application/pgp-encrypted
# application/pgp-keys
application/pgp-signature
# application/pics-rules+xml
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10
# application/pkcs12
application/pkcs7-mime
application/pkcs7-signature
application/pkcs8
application/pkix-attr-cert
application/pkix-cert
application/pkix-crl
application/pkix-pkipath
application/pkixemp
application/pls+xml
# application/poc-settings+xml
application/postscript
application/pspdf
# application/ppsp-tracker+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titran-sheet
application/prs.cww
# application/prs.hpub+zip
# application/prs.nprend
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xml
# application/qsig
# application/raptorfec
# application/rdap+json
application/rdf+xml
application/reginfo+xml
application/relax-ng-compact-syntax
# application/remote-printing
# application/reputon+json
application/resource-lists+xml
application/resource-lists-diff+xml
# application/rfc+xml
# application/riscos
# application/rlmi+xml
application/rls-services+xml
application/rpki-ghostbusters+gbr
application/rpki-manifest+mft
application/rpki-roa+roa
# application/rpki-updown
application/rsd+xml
application/rss+xml
application/rtf
# application/rtx
# application/samlassertion+xml
# application/samlmetadata+xml
application/sbml+xml
application/scmp+xml
# application/scim+json
application/scvp-cv-request+scq
application/scvp-cv-response+scs
application/scvp-vp-request+spq
application/scvp-vp-response+spp
application/sdp
# application/se+xml
# application/se-exi
# application/session-info
# application/set-payment
application/set-payment-initiation+setpay
# application/set-registration
application/set-registration-initiation+setreg
# application/sml
# application/sml-open-catalog
application/shf+xml
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml
# application/smpTE336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query
application/sparql-results+xml
# application/spirits-event+xml
# application/sql
application/srgs
application/srgs+xml
application/sru+xml
application/ssdl+xml
application/ssml+xml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
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application/thraud+xml
# application/timestamp-query
# application/timestamp-reply
application/timestamped-data
# application/ttml+xml
# application/tve-trigger
# application/ulpfec
# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/urc-targetdesc+xml
# application/urc-uisocketdesc+xml
# application/vcard+json
# application/vcard+xml
# application/vemmi
# application/vvidence.scriptfile
# application/vnd.3gpp-prose+xml
# application/vnd.3gpp-prose-3pp3ch+xml
# application/vnd.3gpp.access-transfer-events+xml
# application/vnd.3gpp.bsf+xml
# application/vnd.3gpp.mid-call+xml
application/vnd.3gpp.pic-bw-large+plb
application/vnd.3gpp.pic-bw-small+psb
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 14716
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)  14721
# audio/3gpp2
# audio/ac3
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# audio/amr
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# audio/amr-wb+
# audio/aptx
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# audio/atrac-advanced-lossless
# audio/atrac-x
# audio/atrac3
audio/basic
# audio/bv16
# audio/bv32
# audio/clearmode
# audio/cn
# audio/dat12
# audio/dls
# audio/dsr-es201108
# audio/dsr-es202050
# audio/dsr-es202211
# audio/dsr-es202212
# audio/dv
# audio/dvi4
# audio/eac3
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# audio/g726-32
# audio/g726-40
# audio/g728
# audio/g729
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# audio/g729e
# audio/gsm
# audio/gsm-efr
# audio/gsm-hr-08
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# audio/ip-mr_y2.5
# audio/isac
# audio/l16
# audio/l20
# audio/l24
# audio/l8
# audio/lpc
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# audio/mobile-xmf
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# audio/mpa
# audio/mpa-robust
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# audio/mpeg4-generic
# audio/musepack
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# audio/raptorfec
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# audio/rtp-enc-aescm128
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# audio/rtploopback
# audio/rtx
audio/s3ms3m
audio/silksil
# audio/smv
# audio/smv-qcp
# audio/smv0
image/x-xwindowdumpxwd
# message/cpim
# message/delivery-status
# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/imdn+xml
# message/news
# message/partial
message/rfc822 mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
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model/meshmesh mesh silo
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# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
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# model/vnd.rosette.annotated-data-model
# model/vnd.valve.sourcecompiled-map
model/vnd.vtuvtu
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# model/x3d+fastinfoset
model/x3d+vrmlx3dv x3dvz
model/x3d+xml
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
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# text/encaprtpt
# text/enriched
# text/example
# text/fwdred
# text/grammar-ref-list
text/htmlhtml htm
# text/javascript
# text/jcr-cnd
# text/markdown
# text/mizar
text/n3n3
# text/parameters
# text/parityfec
text/plaintxt text conf def list log in
# text/provenance-notation
# text/prs.fallenstein.rst
text/prs.lines.tagdsc
# text/prs.prop.logic
# text/raptorfec
# text/red
# text/rfc822-headers
text/richtextrtnx
# text/rtf
# text/rtp-enc-aescm128
# text/rtploopback
# video/vnd.cctv
video/vnd.dece.hd uvh
video/vnd.dece.mobile uvm
# video/vnd.dece.mp4
video/vnd.dece.pduv uv p
video/vnd.dece.sduv uv s
video/vnd.dece.video uvvv
# video/vnd.directv.mpeg
# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
video/vnd.dvb.file dvb
video/vnd.fvt
# video/vnd.hns.video
# video/vnd.iptvforum.1dpparityfec-1010
# video/vnd.iptvforum.1dpparityfec-2005
# video/vnd.iptvforum.2dpparityfec-1010
# video/vnd.iptvforum.2dpparityfec-2005
# video/vnd.iptvforum.tsavc
# video/vnd.iptvforum.tsmpeg2
# video/vnd.motorola.video
# video/vnd.motorola.videoop
video/vnd.mpegurlmxu m4u
video/vnd.ms-playready.media.pyv
# video/vnd.nokia.interleaved-multimedia
# video/vnd.nokia.videovoip
# video/vnd.objectvideo
# video/vnd.radgametools.bink
# video/vnd.radgametools.smacker
# video/vnd.sealed.mpeg1
# video/vnd.sealed.mpeg4
# video/vnd.sealed.swf
# video/vnd.sealedmedia.softseal.mov
video/vnd.uvvu.mp4 uv vu
video/vnd.uvvu
# video/vp8
video/webm
video/x-f4v
video/x-flif
video/x-flv
video/x-m4v
video/x-matroskamkv mk3d mks
video/x-mng
video/x-ms-asf asx
video/x-ms-vob
video/x-ms-wmm
video/x-ms-wmv
video/x-ms-wmx
video/x-ms-wmxm
video/x-msvideo
video/x-sgi-movie
video/x-smv
x-conference/x-cooltalk

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* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-jar/org/springframework/web/context/support/ServletConfigPropertySource.java
* /opt/cola/permits/1171078082_1622801803.89/0/spring-web-5-2-15-release-sources-jar/org/springframework/web/context/support/ServletConfigPropertySource.java
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  jar/org/springframework/web/server/ServerErrorException.java
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  jar/org/springframework/web/client/ResponseErrorHandler.java
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  jar/org/springframework/web/filter/RelativeRedirectFilter.java
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# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

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## 1.1571 maven-common-artifact-filters 3.1.0

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* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/mapping/event/AfterLoadEvent.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/mapping/event/BeforeSaveEvent.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/mapping/RelationalPersistentEntityImpl.java
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  * /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/render/Target.java
  * /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/render/TypedSubtreeVisitor.java
  * /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/render/JoinVisitor.java
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  * /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql DataColumn.java
  * /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/Comparison.java
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  * /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/render/RenderTarget.java
jar/org/springframework/data/relational/core/sql/render/FilteredSingleConditionRenderSupport.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/render/ConditionVisitor.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/AbstractImportValidator.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/SelectStatementVisitor.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/UpdateBuilder.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/from/From.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/render/FromClauseVisitor.java
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* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/dialect/LimitClause.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/render/MultiConcatConditionVisitor.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/render/ValuesVisitor.java
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* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/render/ComparisonVisitor.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/Like.java
* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relational/core/sql/SelectValidator.java
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* /opt/cola/permits/1137577154_1614103589.09/0/spring-data-relational-1-1-11-release-sources-jar/org/springframework/data/relation/core/conversion/DbActionExecutionException.java
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Manifest-Version: 1.0
Automatic-Module-Name: org.jboss.jandex
Bnd-LastModified: 1584743177288
Build-Jdk: 1.8.0_131
Build-Timestamp: Fri, 20 Mar 2020 17:26:11 -0500
Built-By: jason
Bundle-Description: Parent POM for JBoss projects. Provides default project build configuration.
Bundle-DocURL: http://www.jboss.org
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Annotation Indexer
Bundle-SymbolicName: org.jboss.jandex
Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 2.1.3.Final
Created-By: Apache Maven Bundle Plugin
Export-Package: org.jboss.jandex;version="2.1.3.Final"
Implementation-Title: Java Annotation Indexer
Implementation-URL: http://www.jboss.org/jandex
Implementation-Vendor: JBoss by Red Hat
Implementation-Vendor-Id: org.jboss
Implementation-Version: 2.1.3.Final
Import-Package: org.apache.tools.ant;resolution:=optional,org.apache.tools.ant.types;resolution:=optional
Java-Vendor: Oracle Corporation
Java-Version: 1.8.0_131
Main-Class: org.jboss.jandex.Main
Os-Arch: x86_64
Os-Name: Mac OS X
Os-Version: 10.15.1
Scm-Connection: scm:git:git@github.com:jboss/jboss-parent-pom.git/jandex
Scm-Revision: e861dd3d9c7811e94d91e1938605cc09a0cd94c8
Scm-Url: http://github.com/jboss/jboss-parent-pom/jandex
Specification-Title: Java Annotation Indexer
Specification-Vendor: JBoss by Red Hat
Specification-Version: 2.1.3.Final
Tool: Bnd-1.50.0

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1.1574 hdrhistogram 2.1.9

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* /opt/cola/permits/1147135715_1616895476.95/0/hdrhistogram-2-1-9-sources-8-jar/org/HdrHistogram/EncodableHistogram.java
* /opt/cola/permits/1147135715_1616895476.95/0/hdrhistogram-2-1-9-sources-8-jar/org/HdrHistogram/DoubleHistogram.java
* /opt/cola/permits/1147135715_1616895476.95/0/hdrhistogram-2-1-9-sources-8-jar/org/HdrHistogram/Histogram.java
* /opt/cola/permits/1147135715_1616895476.95/0/hdrhistogram-2-1-9-sources-8-jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/1147135715_1616895476.95/0/hdrhistogram-2-1-9-sources-8-jar/org/HdrHistogram/HistogramIterationValue.java
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* /opt/cola/permits/1147135715_1616895476.95/0/hdrhistogram-2-1-9-sources-8-jar/org/HdrHistogram/EncodedHistogram.java
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 * 
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 */

package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

Found in path(s):
* /opt/cola/permits/1147135715_1616895476.95/0/hdrhistogram-2-1-9-sources-8-jar/org/HdrHistogram/Version.java
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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition
* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation
* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.
* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `\stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package
* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `'long'`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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* /opt/cola/permits/1171047092_1622804388.43/0/spring-beans-5-2-15-release-sources-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
* /opt/cola/permits/1171047092_1622804388.43/0/spring-beans-5-2-15-release-sources-jar/org/springframework/beans/factory/config/TypedStringValue.java
* /opt/cola/permits/1171047092_1622804388.43/0/spring-beans-5-2-15-release-sources-jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java
* /opt/cola/permits/1171047092_1622804388.43/0/spring-beans-5-2-15-release-sources-jar/org/springframework/beans/PropertyValue.java
* /opt/cola/permits/1171047092_1622804388.43/0/spring-beans-5-2-15-release-sources-jar/org/springframework/beans/factory/support/MethodOverrides.java
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* /opt/cola/permits/1171047092_1622804388.43/0/spring-beans-5-2-15-release-sources-jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /opt/cola/permits/1171047092_1622804388.43/0/spring-beans-5-2-15-release-sources-jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /opt/cola/permits/1171047092_1622804388.43/0/spring-beans-5-2-15-release-sources-jar/org/springframework/beans/factory/config/TypeConverterSupport.java
* /opt/cola/permits/1171047092_1622804388.43/0/spring-beans-5-2-15-release-sources-jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java
* /opt/cola/permits/1171047092_1622804388.43/0/spring-beans-5-2-15-release-sources-jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java
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1.1599 kubernetes-client v0.17.7

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THE BASIC LIBRARY FUNCTIONS
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Email local part: ph10
Email domain:   cam.ac.uk

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Written by:   Zoltan Herczeg
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* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources.jar/org/springframework/security/web/session/SimpleRedirectInvalidSessionStrategy.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources.jar/org/springframework/security/web/RedirectStrategy.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources.jar/org/springframework/security/web/jackson2/package-info.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources.jar/org/springframework/security/web/jaasapi/package-info.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources.jar/org/springframework/security/web/session/RedirectStrategy.java
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* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/context/support/SecurityWebApplicationContextUtils.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/access/expression/EvaluationContextPostProcessor.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/access/expression/AbstractVariableEvaluationContextPostProcessor.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/access/DelegatingAccessDeniedHandler.java
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* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/server/ServerHttpBasicAuthenticationConverter.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/reactive/result/view/CsrfRequestDataValueProcessor.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/context/request/async/SecurityContextCallableProcessingInterceptor.java

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* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/server/jackson2/WebServerJackson2Module.java

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  jar/org/springframework/security/web/access/evaluation/DelegatingEvaluationContext.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-
  jar/org/springframework/security/web/csrf/CookieCsrfTokenRepository.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-
  jar/org/springframework/security/web/session/SessionInformationExpiredEvent.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-
  jar/org/springframework/security/web/csrf/LazyCsrfTokenRepository.java

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  jar/org/springframework/security/web/csrf/MissingCsrfTokenException.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-
  jar/org/springframework/security/web/csrf/CsrfTokenRepository.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-
  jar/org/springframework/security/web/session/HttpSessionCsrfTokenRepository.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-
  jar/org/springframework/security/web/bind/annotation/AuthenticationPrincipal.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/csrf/DefaultCsrfToken.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/header/HeaderWriter.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/csrf/CsrfAuthenticationStrategy.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/authentication/session/AbstractSessionFixationProtectionStrategy.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/util/matcher/AnyRequestMatcher.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/session/SessionFixationProtectionEvent.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/context/AbstractSecurityWebApplicationInitializer.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/HeaderWriter.java

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* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/authentication/DelegatingAuthenticationEntryPoint.java
* /opt/cola/permits/1119226318_1608791865.59/0/spring-security-web-5-4-2-sources-jar/org/springframework/security/web/util/matcher/ELRequestMatcher.java
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1.1607 spring-context-support

5.2.5.RELEASE

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#
# Modified extensions registered in this file:
# text/plain			java c c++ cpp pl cc h
# image/png				png
# image/svg+xml			svg
#
# text/html				html htm HTML HTM
# text/plain				txt text TXT TEXT java c c++ cpp pl cc h
# image/gif				gif GIF
# image/ief				ief
# image/jpeg			jpeg jpg jpe JPG
# image/tiff				tiff tif
# image/x-xwindowdump		xwd
# application/postscript	ai eps ps
# application/rtf			rtf
# application/x-tex			tex
# application/x-texinfo			texinfo texi
# application/x-troff			t tr roff
# audio/basic				au
# audio/midi				midi mid
# audio/aif				aiff
# audio/x-aiff				aif aiff
# audio/x-mp3				mp3
# audio/x-wav				wav
# video/mpeg				mpg mpe
# video/quicktime				mov
# video/x-msvideo			avi

# Additional file types adapted from
# TEXT TYPES

text/x-speech
text/css
text/csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap

# X-Windows pixelmap (8-bit color)
image/x-xpixmap

# Portable Network Graphics
image/png

# Scalable Vector Graphics
image/svg+xml

# Image Exchange Format (RFC 1314)
image/ief

# RGB
image/rgb

# Group III Fax (RFC 1494)
image/g3fax

# X Windowdump format
image/x-xwindowdump

# Macintosh PICT format
image/x-pict

# PPM (UNIX PPM package)
image/x-portable-pixmap

# PGM (UNIX PPM package)
image/x-portable-graymap

# PBM (UNIX PPM package)
image/x-portable-bitmap

# PNM (UNIX PPM package)
image/x-portable-anymap

# Microsoft Windows bitmap
image/x-ms-bmp

# CMU raster
image/x-cmu-raster

# Kodak Photo-CD
image/x-photo-cd

# Computer Graphics Metafile
image/cgm

# CALS Type 1 or 2
image/x-calsmil cal
# Fractal Image Format (Iterated Systems)
image/fif
# QuickSilver active image (Micrografx)
image/x-mgx-dsfdsf
# CMX vector image (Corel)
image/x-cmxcmx
# Wavelet-compressed (Summus)
image/waveletwi
# AutoCad Drawing (SoftSource)
image/vnd.dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf
# Simple Vector Format (SoftSource)
image/vnd.svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic""audio - 8-bit u-law PCM"
audio/basic
# Macintosh audio format (AIpple)
audio/x-aiffaiff aiff aifc
# Microsoft audio
audio/x-wavwav
# MPEG audio
audio/x-mpegmpa absmpega
# MPEG-2 audio
audio/x-mpeg-2mp2amp2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeeches
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudiora ram
# MIDI music data
x-music/x-midimmid
# Koan music data (SSeyo)
application/vnd.koanskp
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpegmpeg mpg mpe
# MPEG-2 video
video/mpeg-2mpv2 mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideo avi
# SGI Movie format
video/x-sgi-movie movie
# VDOlive streaming video (VDOnet)
video/vdovdo
# Vivo streaming video (Vivo software)
video/vnd.vivoviv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig pac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalk ice

# TEXT-RELATED

# PostScript
application/postscript ai eps ps
# Microsoft Rich Text Format
application/rtf rtf
# Adobe Acrobat PDF
application/pdf pdf
# Maker Interchange Format (FrameMaker)
application/vnd.mif mif
# Troff document
application/x-troff tr roff
# Troff document with MAN macros
application/x-troff-man man
# Troff document with ME macros
application/x-troff-meme mene
# Troff document with MS macros
application/x-troff-ms msms
# LaTeX document
application/x-latex latex
# Tex/LateX document
application/x-tex tex
# GNU TexInfo document
application/x-texinfo texinfo texi
# TeX dvi format
application/x-dvi dvi
# MS word document
application/msword doc DOC
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application/oda
# Envoy Document
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tar
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application/x-tartar
# POSIX tar format
application/x-ustar
# Old CPIO format
application/x-bcpio
# POSIX CPIO format
application/x-cpio
# UNIX sh shell archive
application/x-shar
# DOS/PC - Pkzipped archive
application/zip
# Macintosh Binhexed archive
application/mac-binhex40
# Macintosh Stuffit Archive
application/x-stuffit
# Fractal Image Format
application/fractals
# "Binary UUencoded"
application/octet-stream
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# UNIX bourne shell program
application/x-sh
# UNIX c-shell program
application/x-csh
# Perl program
application/x-perl
# Tcl (Tool Control Language) program
application/x-tcl
# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplashs

# mBED multimedia data (mBED)
application/mbedletmbed

# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpointppz

# ASAP WordPower (Software Publishing Corp.)
application/x-asapasp

# Astound Web Player multimedia data (GoldDisk)
application/astoundasn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs

# OLE Object (Microsoft/NCompass)
application/x-oleobjectods

# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp

# Visual Basic objects (Amara)
application/x-webbasicwba

# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm

# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-streamexe com

# Pointcast news data (Pointcast)
application/x-pcnpcn

# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls

# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt

# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp

# SourceView document (Dataware Electronics)
application/vnd.svdsvd

# Net Install - software install (20/20 Software)
application/x-net-installins
# Carbon Copy - remote control/access (Microcom)
application/ccvccv
# Spreadsheets (Visual Components)
workbook/formulaonevts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlvrml
# WIRL - VRML data (VREAM)
x-world/x-vreamvrw
# Play3D 3d scene data (Play3D)
application/x-p3dp3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsrvr
# WebActive 3d data (Plastic Thought)
x-world/x-wvrvwr
# QuickDraw3D scene data (Apple)
x-world/x-3dmf3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematicamama
# Computational meshes for numerical simulations
x-model/x-meshmsh
# Vis5D 5-dimensional data
application/vis5dv5d
# IGES models -- CAD/CAM (CGM) data
application/igesigs
# Autocad WHIP vector drawings
drawing/x-dwfdfw

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jar/org/springframework/mail/javamail/mime.types
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* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1.jar/org/springframework/scheduling/quartz/DelegatingJob.java
* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1.jar/org/springframework/mail/MailParseException.java
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* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1.jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java
* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1.jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java

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* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1-jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.java
* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1-jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllInterceptor.java
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* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1-jar/org/springframework/scheduling/quartz/AbstractJCacheOperation.java
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* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1-jar/org/springframework/scheduling/quartz/TransactionAwareCacheDecorator.java
* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1-jar/org/springframework/scheduling/quartz/TransactionAwareCacheDecorator.java
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jar/org/springframework/mail/MailPreparationException.java
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  jar/springframework/cache/transaction/TransactionAwareCacheManagerProxy.java
* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1-
  jar/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /opt/cola/permits/1149087010_1620942455.93/0/spring-context-support-5-2-5-release-sources-1-
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  jar/org/wildfly/security/sasl/gssapi/GssapiServer.java

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1.1610 plexus-i18n 1.0-beta-7
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* /opt/cola/permits/1112020374_1631301155.99/0/plexus-i18n-master-plexus-i18n-master/src/test/java/org/codehaus/plexus/i18n/FooBundle_en.java
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* /opt/cola/permits/1112020374_1631301155.99/0/plexus-i18n-master-plexus-i18n-master/src/test/java/org/codehaus/plexus/i18n/I18NTokenizerTest.java
* /opt/cola/permits/1112020374_1631301155.99/0/plexus-i18n-master-plexus-i18n-master/src/main/java/org/codehaus/plexus/i18n/I18NTokenizer.java
1.1611 apache-log4j 1.2.15

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1.1612 device-mapper-multipath 0.4.9-134.el7_9

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Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 15152
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##

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1.1628 acl 2.2.53-6

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* /opt/ws_local/PERMITS_SQL/1068997026_1594440842.54/0/spring-xml-3-0-8-release-sources-1-jar/org/springframework/xml/transform/StringSource.java
* /opt/ws_local/PERMITS_SQL/1068997026_1594440842.54/0/spring-xml-3-0-8-release-sources-1-jar/org/springframework/xml/transform/TransformerHelper.java
* /opt/ws_local/PERMITS_SQL/1068997026_1594440842.54/0/spring-xml-3-0-8-release-sources-1-jar/org/springframework/xml/validation/SchemaLoaderUtils.java
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* /opt/ws_local/PERMITS_SQL/1068997026_1594440842.54/0/spring-xml-3-0-8-release-sources-1-jar/org/springframework/xml/xpath/XPathExpression.java

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola’s opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner’s mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.
Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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<signature of Ty Coon>, 1 April 1990
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Version 2.1, February 1999

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

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

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

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

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, whereas the latter must be combined with the library in order to run.

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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.

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

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

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

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

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

(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.)

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

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.

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

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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.

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.

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that 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.

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.

d) 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.

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

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

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1.1643 spring-boot-starter-actuator

2.1.8.RELEASE

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1.1644 asm 2.2.0

1.1645 jackson-databind 2.9.9.3

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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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### 1.1646 guava 19.0

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/BloomFilterStrategies.java
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  jar/com/google/common/hash/Hashing.java
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   jar/com/google/common/collection/AbstractMultimap.java
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jar/com/google/common/collection/ReverseNaturalOrdering.java
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jar/com/google/common/collection/Constraints.java
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jar/com/google/common/collection/ClassToInstanceMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/HashBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Interners.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Verify.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableSetMultimap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Enums.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ExecutionError.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AbstractScheduledService.java
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jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/Cache.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/MimeType.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/FutureFallback.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Present.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/TypeParameter.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableSortedMultiset.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Count.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedInteger.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/GeneralRange.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/MapMakerInternalMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/SparseImmutableTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/RegularImmutableTable.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Table.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/FluentIterable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/InetAddresses.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/SerializingExecutor.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/RegularImmutableMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/ImmutableMultimap.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/UnmodifiableIterator.java
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* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/CollectPreconditions.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/TreeBasedTable.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Bytes.java
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* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Converter.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ListenerableFutureTask.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/115090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableMultiset.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Platform.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Tables.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/11509090999_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Ints.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/ForwardingImmutableCollection.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/BaseEncoding.java

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  jar/com/google/common/collection/MultimapBuilder.java
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  jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collection/ImmutableMapEntry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/eventbus/SubscriberExceptionHandler.java
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* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
1.1661 netty-transport-native-kqueue

4.1.65.Final

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jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueueChannelOption.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/BsdSocket.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/netty_kqueue_bsdsocket.c
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/netty_kqueue_bsdsocket.h
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/package-info.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueue.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueSocketChannel.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/netty_kqueue_eventarray.c
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueueSocketChannel.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/Native.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java

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* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/netty_kqueue_eventarray.h
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/io/netty/channel/kqueue/AcceptFilter.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/netty_kqueue_native.c
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoop.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/io/netty/channel/kqueue/NativeLongArray.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/io/netty/channel/kqueue/KQueueEventArray.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/io/netty/channel/kqueue/KQueueChannelConfig.java
* /opt/cola/permits/1167153045_1621579327.14/0/netty-transport-native-kqueue-4-1-65-final-sources-jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java

1.1662 jetty-xml 9.3.9.v20160517
1.1663 netty-transport-native-unix-common
4.1.34.Final
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1.1664 python-requests 2.22.0

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1.1665 netty-codec 4.1.65.Final

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  jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-
  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-
  jar/io/netty/handler/codec/DefaultHeadersImpl.java

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A decoder that splits the received [ByteBuf]s dynamically by the
value of the length field in the message. It is particularly useful when you
decode a binary message which has an integer header field that represents the
length of the message body or the whole message.

A decoder that splits the received [ByteBuf]s dynamically by the
value of the length field in the message. It is particularly useful when you
decode a binary message which has an integer header field that represents the
length of the message body or the whole message.

The value of the length field in this example is 12 (0x0C) which
represents the length of "HELLO, WORLD". By default, the decoder assumes
that the length field represents the number of the bytes that follows the
length field. Therefore, it can be decoded with the simplistic parameter
combination.

* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
Because we can get the length of the content by calling

```java
// ByteBuf#readableBytes(), you might want to strip the length
```

field by specifying `initialBytesToStrip`. In this example, we specified `2`, that is same with the length of the length field, to strip the first two bytes.

```java
lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = 0
initialBytesToStrip = 2
```

Because we can get the length of the content by calling

```java
// ByteBuf#readableBytes(), you might want to strip the length
```

field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we specified `2`, that is same with the length of the length field, to strip the first two bytes.

```java
lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = 0
initialBytesToStrip = 2
```

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero `lengthAdjustment`. Because the length value in this example message is always greater than the body length by `2`, we specify `-2` for compensation.

```java
lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = -2
initialBytesToStrip = 0
```

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero `lengthAdjustment`. Because the length value in this example message is always greater than the body length by `2`, we specify `-2` for compensation.

```java
lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = -2
initialBytesToStrip = 0
```
The following message is a simple variation of the first example. An extra header value is prepended to the message. \texttt{lengthAdjustment} is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```
lengthFieldOffset   = \texttt{2} (= the length of Header 1)
lengthFieldLength   = \texttt{3}
lengthAdjustment    = \texttt{0}
initialBytesToStrip = \texttt{0}
```

BEFORE DECODE (17 bytes)         AFTER DECODE (17 bytes)

```
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
|  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive \texttt{lengthAdjustment} so that the decoder counts the extra header into the frame length calculation.

```
lengthFieldOffset = \texttt{0}
lengthFieldLength = \texttt{3}
lengthAdjustment = \texttt{2} (= the length of Header 1)
initialBytesToStrip = \texttt{0}
```

BEFORE DECODE (17 bytes)         AFTER DECODE (17 bytes)

```
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the \texttt{lengthFieldOffset} and the extra header affects the \texttt{lengthAdjustment}. We also specified a non-zero length field at the end of 5 bytes header, do not strip header.

```
lengthFieldOffset = \texttt{0}
lengthFieldLength = \texttt{3}
lengthAdjustment = \texttt{2} (= the length of Header 1)
initialBytesToStrip = \texttt{0}
```

BEFORE DECODE (17 bytes)         AFTER DECODE (17 bytes)

```
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
|  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive \texttt{lengthAdjustment} so that the decoder counts the extra header into the frame length calculation.
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>b</b>lengthAdjustment</tt> = <b>1</b> (= the length of HDR2)
* <b>b</b>initialBytesToStrip</tt> = <b>3</b> (= the length of HDR1 + LEN)
*<pre>
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------+------+
* | HDR1 | Length | HDR2 | Actual Content |-----| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+------+
* </pre>
*<h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*<pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>b</b>lengthAdjustment</tt> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>b</b>initialBytesToStrip</tt> = <b>3</b>
*<pre>
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------+------+
* | HDR1 | Length | HDR2 | Actual Content |-----| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+------+
* </pre>
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4.1-65-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/compression/MessageAggregationException.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
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 * Enumeration of supported Base64 dialects.
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jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-
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jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-
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* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
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* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
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* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1167152979_1621579310.61/0/netty-codec-4-1-65-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
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/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@code ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * 
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * 
 * </p>
Alternatively, the following adapter classes are provided for your convenience:

* `@link ChannelInboundHandlerAdapter` to handle inbound I/O events,
* `@link ChannelOutboundHandlerAdapter` to handle outbound I/O operations, and
* `@link ChannelDuplexHandler` to handle both inbound and outbound events

For more information, please refer to the documentation of each subtype.

The context object

A `@link ChannelHandler` is provided with a `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey`)s which is specific to the handler.

State management

A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
```
Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends @link ChannelInitializer{Channel} {  
    @code @Override
    public void initChannel({@link Channel} channel) {  
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }
  }
}

<h4>Using {@link AttributeKey}s</h4>

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use {@link AttributeKey}s which is provided by

[@link ChannelHandlerContext]:

public interface Message {  
    // your methods here  
}

[@code @Sharable]
public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {  
    private final [@link AttributeKey]Boolean auth =  
        [@link AttributeKey.valueOf(String) AttributeKey.valueOf("auth")];

    @code @Override
    public void channelRead(@link ChannelHandlerContext) ctx, Message message) {  
        @link Attribute[Boolean] attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {  
            authenticate((LoginMessage) o);
            <b>attr.set(true)</b>;
        } else (message instanceof GetDataMessage) {  
            if (<b>Boolean.TRUE.equals(attr.get())</b>) {  
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {  
                fail();
            }
        }
    ...
Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends `@link ChannelInitializer`<`@link Channel`> {

    private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();

    `@code @Override`
    public void initChannel(`@link Channel` channel) {
        channel.pipeline().addLast("handler", <b>SHARED</b>);
    }
}
```

**The `@Sharable` annotation**

In the example above which used an `@link AttributeKey`, you might have noticed the `@code @Sharable` annotation.

If a `@link ChannelHandler` is annotated with the `@code @Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`'s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like a [link to JCIP annotations](http://www.javaconcurrencyinpractice.com/annotations/doc/).

**Additional resources worth reading**

Please refer to the `@link ChannelHandlerContext`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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*/
jar/io/netty/channel/ChannelConfig.java
* /opt/cola/permits/1110676194_1606843461.55/0/netty-transport-4-1-34-final-sources-2-
jar/io/netty/channel/DefaultEventLoop.java
* /opt/cola/permits/1110676194_1606843461.55/0/netty-transport-4-1-34-final-sources-2-
jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1110676194_1606843461.55/0/netty-transport-4-1-34-final-sources-2-
jar/io/netty/channel/nio/NioTask.java
* /opt/cola/permits/1110676194_1606843461.55/0/netty-transport-4-1-34-final-sources-2-
jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/cola/permits/1110676194_1606843461.55/0/netty-transport-4-1-34-final-sources-2-
jar/io/netty/channel/group/ChannelGroupFutureListener.java
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Found in path(s):
* /opt/cola/permits/1110676194_1606843461.55/0/netty-transport-4-1-34-final-sources-2-
jar/io/netty/channel/ExtendedClosedChannelException.java
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1.1680 model-mapper 2.3.0

1.1681 zlib 1.2.11.dfsq-2ubuntu1.2

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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jloup@gzip.org          madler@alumni.caltech.edu

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/*
1.1682 amqp 5.0.6

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1.1683 libpng 1.6.37

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*/

/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
lexer grammar GroovyLexer;

options {
  superClass = AbstractLexer;
}

@header {
  import java.util.Deque;
  import java.util.ArrayDeque;
  import java.util.Map;
  import java.util.HashMap;
  import java.util.Set;
  import java.util.HashSet;
  import java.util.Collections;
  import java.util.stream.IntStream;
  import java.util.logging.Logger;
  import java.util.logging.Level;
  import org.apache.groovy.util.Maps;
  import static org.apache.groovy.parser.antlr4.SemanticPredicates.*;
}

@members {
  private static final Logger LOGGER = Logger.getLogger(GroovyLexer.class.getName());
  private long tokenId = 0;
  private int lastTokenType = 0;
  private int invalidDigitCount = 0;
/**
 * Record the index and token type of the current token while emitting tokens.
 */

@Override
public void emit(Token token) {
    this.tokenIndex++;

    int tokenType = token.getType();
    if (Token.DEFAULT_CHANNEL == token.getChannel()) {
        this.lastTokenType = tokenType;
    }

    if (RollBackOne == tokenType) {
        this.rollbackOneChar();
    }

    super.emit(token);
}

private static final int[] REGEX_CHECK_ARRAY =
    IntStream.of(
        Identifier, CapitalizedIdentifier, NullLiteral, BooleanLiteral, THIS, RPAREN, RBRACK,
        RBRACE,
        IntegerLiteral, FloatingPointLiteral, StringLiteral, GStringEnd, INC, DEC
    ).sorted().toArray();

private boolean isRegexAllowed() {
    if (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) >= 0) {
        return false;
    }

    return true;
}

/**
 * just a hook, which will be overrided by GroovyLangLexer
 */
protected void rollbackOneChar() {}

private static class Paren {
    private String text;
    private int lastTokenType;
    private int line;
    private int column;

    public Paren(String text, int lastTokenType, int line, int column) {
        this.text = text;
        this.lastTokenType = lastTokenType;
    }
}
this.line = line;
this.column = column;
}

public String getText() {
    return this.text;
}

public int getLastTokenType() {
    return this.lastTokenType;
}

public int getLine() {
    return line;
}

public int getColumn() {
    return column;
}

@Override
public int hashCode() {
    return (int) (text.hashCode() * line + column);
}

@Override
public boolean equals(Object obj) {
    if (!(obj instanceof Paren)) {
        return false;
    }
    Paren other = (Paren) obj;
    return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
}

protected void enterParenCallback(String text) {}

protected void exitParenCallback(String text) {}

private final Deque<Paren> parenStack = new ArrayDeque<>(32);

private void enterParen() {
    String text = getText();
    enterParenCallback(text);
    parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
private void exitParen() {
    String text = getText();
    exitParenCallback(text);

    Paren paren = parenStack.peek();
    if (null == paren) return;
    parenStack.pop();
}

private boolean isInsideParens() {
    Paren paren = parenStack.peek();

    // We just care about "(" and "[", inside which the new lines will be ignored.
    // Notice: the new lines between "{" and "}" can not be ignored.
    if (null == paren) {
        return false;
    }

    return ("(".equals(paren.getText()) && TRY != paren.getLastTokenType()) // we don't treat try-paren(i.e. try
    (....)) as parenthesis
        || "[".equals(paren.getText());
}

private void ignoreTokenInsideParens() {
    if (!this.isInsideParens()) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}

private void ignoreMultiLineCommentConditionally() {
    if (!this.isInsideParens() && isFollowedByWhiteSpaces(_input)) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}

@Override
public int getSyntaxErrorSource() {
    return GroovySyntaxError.LEXER;
}

@Override
public int getErrorLine() {
    return getLine();
}
@Override
public int getErrorColumn() {
    return getCharPositionInLine() + 1;
}

@Override
public int popMode() {
    try {
        return super.popMode();
    } catch (EmptyStackException ignored) { // raised when parens are unmatched: too many ), ], or } 
    if (LOGGER.isLoggable(Level.FINEST)) {
        LOGGER.finest(org.codehaus.groovy.runtime.DefaultGroovyMethods.asString(ignored));
    }
    }
    return Integer.MIN_VALUE;
}

// 3.10.5 String Literals
StringLiteral
   : GStringQuotationMark DqStringCharacter* GStringQuotationMark
| SqStringQuotationMark SqStringCharacter* SqStringQuotationMark
| Slash  { this.isRegexAllowed() && _input.LA(1) !="" }?
        SlasyStringCharacter+  Slash
| TdqStringQuotationMark TdqStringCharacter* TdqStringQuotationMark
| TsqStringQuotationMark TsqStringCharacter* TsqStringQuotationMark
| DollarSlasyGStringQuotationMarkBegin DollarSlasyStringCharacter+ DollarSlasyGStringQuotationMarkEnd
   ;

// Groovy gstring
GStringBegin
   : GStringQuotationMark DqStringCharacter* Dollar -> pushMode(DQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
TdqGStringBegin
   : TdqStringQuotationMark TdqStringCharacter* Dollar -> type(GStringBegin), pushMode(TDQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
SlasyGStringBegin
   : Slash  { this.isRegexAllowed() && _input.LA(1) !="" }? SlasyStringCharacter* Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin), pushMode(SLASY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
DollarSlashyGStringCharacter
  : DollarSlashyStringCharacter -> more
  ;

mode GSTRING_TYPE_SELECTOR_MODE;
GStringLBrace
  : '[' { this.enterParen(); } -> type(LBRACE), popMode, pushMode(DEFAULT_MODE)
  ;
GStringIdentifier
  : IdentifierInGString -> type(Identifier), popMode, pushMode(GSTRING_PATH_MODE)
  ;

mode GSTRING_PATH_MODE;
GStringPathPart
  : Dot IdentifierInGString
  ;
RollBackOne
  : . { 
    // a trick to handle GStrings followed by EOF properly
    int readChar = _input.LA(-1);
    if (EOF == _input.LA(1) && ('"' == readChar || '/' == readChar)) {
      setType(GStringEnd);
    } else {
      setChannel(HIDDEN);
    }
  } -> popMode
  ;

mode DEFAULT_MODE;
// character in the double quotation string. e.g. "a"
fragment DqStringCharacter
  : ~["\n\r\$] 
    | EscapeSequence
  ;

// character in the single quotation string. e.g. 'a'
fragment SqStringCharacter
  : ~[\n\r\n] 
    | EscapeSequence
  ;

// character in the triple double quotation string. e.g. """a""
fragment TdqStringCharacter
  : ~[\"\$]
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// character in the triple single quotation string. e.g. "'a'"
fragment TsqStringCharacter
    : ~['\"]
    |  SqStringQuotationMark { _input.LA(1) != '\' || _input.LA(2) != '\' || _input.LA(3) == '\' && (_input.LA(4) != '\'
                          || _input.LA(5) != '\') }?
    |  EscapeSequence
    ;

// character in the slashy string. e.g. /a/
fragment SlashyStringCharacter
    : SlashEscape
    |  Dollar { !isFollowedByJavaLetterInGString(_input) }?
    |  ~[/$\u0000]
    ;

// character in the collar slashy string. e.g. $/a/$
fragment DollarSlashyStringCharacter
    : SlashEscape | DollarSlashEscape | DollarDollarEscape
    |  Slash { _input.LA(1) != '$' }?
    |  Dollar { !isFollowedByJavaLetterInGString(_input) }?
    |  ~[/$\u0000]
    ;

// Groovy keywords
AS          : 'as';
DEF         : 'def';
IN          : 'in';
TRAIT       : 'trait';
THREADSAFE  : 'threadsafe'; // reserved keyword

// the reserved type name of Java10
VAR         : 'var';

// 3.9 Keywords
BuiltInPrimitiveType
    : BOOLEAN
    |  CHAR
    |  BYTE
    |  SHORT
    |  INT
    |  LONG
    |  FLOAT
    |  DOUBLE
INTERFACE : 'interface';

fragment
LONG : 'long';

NATIVE : 'native';
NEW : 'new';
PACKAGE : 'package';
PRIVATE : 'private';
PROTECTED : 'protected';
PUBLIC : 'public';
RETURN : 'return';

fragment
SHORT : 'short';

STATIC : 'static';
STRICTFP : 'strictfp';
SUPER : 'super';
SWITCH : 'switch';
SYNCHRONIZED : 'synchronized';
THIS : 'this';
THROW : 'throw';
THROWS : 'throws';
TRANSIENT : 'transient';
TRY : 'try';
VOID : 'void';
VOLATILE : 'volatile';
WHILE : 'while';

// 3.10.1 Integer Literals

IntegerLiteral :
  ( DecimalIntegerLiteral
   | HexIntegerLiteral
   | OctalIntegerLiteral
   | BinaryIntegerLiteral
  ) (Underscore [ require(false, "Number ending with underscores is invalid", -1, true); ])?

  // !!! Error Alternative !!!
  | Zero ([0-9] { invalidDigitCount++; }+ [ require(false, "Invalid octal number", -(invalidDigitCount + 1), true); ]
  IntegerTypeSuffix?

  ;

fragment
Zero
fragment
DecimalIntegerLiteral
  :  DecimalNumeral IntegerTypeSuffix?
  :

fragment
HexIntegerLiteral
  :  HexNumeral IntegerTypeSuffix?
  :

fragment
OctalIntegerLiteral
  :  OctalNumeral IntegerTypeSuffix?
  :

fragment
BinaryIntegerLiteral
  :  BinaryNumeral IntegerTypeSuffix?
  :

fragment
IntegerTypeSuffix
  :  [lLiIgG]
  :

fragment
DecimalNumeral
  :  Zero
  |  NonZeroDigit (Digits? | Underscores Digits)
  :

fragment
Digits
  :  Digit (DigitOrUnderscore* Digit)?
  :

fragment
Digit
  :  Zero
  |  NonZeroDigit
  :

fragment
NonZeroDigit
  :  [1-9]
fragment DigitOrUnderscore
  : Digit
  | Underscore
  ;

fragment Underscores
  : Underscore+
  ;

fragment Underscore
  : '_'
  ;

fragment HexNumeral
  : Zero [xX] HexDigits
  ;

fragment HexDigits
  : HexDigit (HexDigitOrUnderscore* HexDigit)?
  ;

fragment HexDigit
  : [0-9a-fA-F]
  ;

fragment HexDigitOrUnderscore
  : HexDigit
  | Underscore
  ;

fragment OctalNumeral
  : Zero Underscores? OctalDigits
  ;

fragment OctalDigits
  : OctalDigit (OctalDigitOrUnderscore* OctalDigit)?
  ;

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fragment OctalDigit
  : [0-7];
;

fragment OctalDigitOrUnderscore
  : OctalDigit
  | Underscore
  ;

fragment BinaryNumeral
  : Zero [bB] BinaryDigits
  ;

fragment BinaryDigits
  : BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?
  ;

fragment BinaryDigitOrUnderscore
  : BinaryDigit
  | Underscore
  ;

// 3.10.2 Floating-Point Literals

FloatingPointLiteral
  : ( DecimalFloatingPointLiteral
    | HexaDecimalFloatingPointLiteral
  ) (Underscore { require(false, "Number ending with underscores is invalid", -1, true); } )?
  ;

fragment DecimalFloatingPointLiteral
  : Digits Dot Digits ExponentPart? FloatTypeSuffix?
  | Digits ExponentPart FloatTypeSuffix?
  | Digits FloatTypeSuffix
  ;
fragment ExponentPart
  :  ExponentIndicator SignedInteger
    ;

fragment ExponentIndicator
  :  [eE]
    ;

fragment SignedInteger
  :  Sign? Digits
    ;

fragment Sign
  :  [+\-]
    ;

fragment FloatTypeSuffix
  :  [fFdDgG]
    ;

fragment HexadecimalFloatingPointLiteral
  :  HexSignificand BinaryExponent FloatTypeSuffix?
    ;

fragment HexSignificand
  :  HexNumeral Dot?
    |  Zero [xX] HexDigits? Dot HexDigits
    ;

fragment BinaryExponent
  :  BinaryExponentIndicator SignedInteger
    ;

fragment BinaryExponentIndicator
  :  [pP]
    ;

fragment Dot
  :  '.'
// 3.10.3 Boolean Literals

BooleanLiteral
  : 'true'
  | 'false'
  ;

// 3.10.6 Escape Sequences for Character and String Literals

fragment
EscapeSequence
  : Backslash [btnfrs"\]
  | OctalEscape
  | UnicodeEscape
  | DollarEscape
  | LineEscape
  ;

fragment
OctalEscape
  : Backslash OctalDigit
  | Backslash OctalDigit OctalDigit
  | Backslash ZeroToThree OctalDigit OctalDigit
  ;

// Groovy allows 1 or more u's after the backslash
fragment
UnicodeEscape
  : Backslash 'u' HexDigit HexDigit HexDigit HexDigit
  ;

fragment
ZeroToThree
  : [0-3]
  ;

// Groovy Escape Sequences

fragment
DollarEscape
  : Backslash Dollar
  ;

fragment
LineEscape
  : Backslash LineTerminator
  ;

fragment
LineTerminator
  : '\n' | '\r'
  ;

fragment
SlashEscape
  : Backslash Slash
  ;

fragment
Backslash
  : '\'
  ;

fragment
Slash
  : '/'
  ;

fragment
Dollar
  : '$'
  ;

fragment
GStringQuotationMark
  : ""
  ;

fragment
SqStringQuotationMark
  : '\'
  ;

fragment
TdqStringQuotationMark
  : """
  ;

fragment
TsqStringQuotationMark
  : "\""
  ;
// 3.10.7 The Null Literal
NullLiteral
  : 'null';

// Groovy Operators

RANGE_INCLUSIVE     : '..';
RANGE_EXCLUSIVE     : '..<';
SPREAD_DOT          : '*.';
SAFE_DOT            : '?.';
SAFE_CHAIN_DOT      : '??.';
ELVIS               : '?:';
METHOD_POINTER      : '.&';
METHOD_REFERENCE    : '::';
REGEX_FIND          : '=~';
REGEX_MATCH         : '==~';
POWER               : '**';
POWER_ASSIGN        : '**=';
SPACESHIP           : '<=>';
IDENTICAL           : '===';
NOT_IDENTICAL       : '!==';
ARROW               : '<->';

// !internalPromise will be parsed as \!in ternalPromise, so semantic predicates are necessary
NOT_INSTANCEOF      : '!instanceof' { isFollowedBy(_input, ' ', '\u', '\r', '\n') }?;
NOT_IN              : '!in' { isFollowedBy(_input, ' ', '\u', '\r', '\n', '[', '(') }?;
/ 3.11 Separators

LPAREN : '(' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RPAREN : ')' { this.exitParen(); } -> popMode;

LBRACE : '{' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACE : '}' { this.exitParen(); } -> popMode;

LBRACK : '[' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACK : ']' { this.exitParen(); } -> popMode;

SEMI : ';
COMMA : ','
DOT : Dot;

// 3.12 Operators

ASSIGN : '=';
GT : '>'; 
LT : '<';
NOT : '!';
BITNOT : '~';
QUESTION : '?';
COLON : ':';
EQUAL : '==';
LE : '<=';
GE : '>=';
NOTEQUAL : '!=';
AND : '&&';
OR : '||';
INC : '++';
DEC : '--';
ADD : '+';
SUB : '-';
MUL : '*';
DIV : Slash;
BITAND : '&';
BITOR : '|';
XOR : '^';
MOD : '%';

ADD_ASSIGN : '+=';
SUB_ASSIGN : '-=';
MUL_ASSIGN : '*=';
DIV_ASSIGN : '/=';
AND_ASSIGN : '&=';
OR.Assign : '|=';
XOR_ASSIGN : '^=';
MOD_ASSIGN : '%=';
LSHIFT_ASSIGN : '<<=';
RSHIFT_ASSIGN : '>>=';
URSHIFT_ASSIGN : '>>>=';
ELVIS_ASSIGN : '?=';

// 3.8 Identifiers (must appear after all keywords in the grammar)
CapitalizedIdentifier
   : [A-Z] JavaLetterOrDigit* ;
;
Identifier
   : JavaLetter JavaLetterOrDigit* ;
;
fragment
IdentifierInGString
   : JavaLetterInGString JavaLetterOrDigitInGString* ;
;
fragment
JavaLetter
   : [a-zA-Z$\_] // these are the "java letters" below 0x7F
      | // covers all characters above 0x7F which are not a surrogate
      ~[\u0000-\u007Fu\u007Fu\u0080-\uDBFF]
      { Character.isJavaIdentifierStart(_input.LA(-1)) && !Character.isIdentifierIgnorable(_input.LA(-1)) }?
      | // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
      \uD800-\uDBFF \uD800-\uDBFF
      { Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
      ;

fragment
JavaLetterInGString
   : JavaLetter { _input.LA(-1) != '$' }?
      ;

fragment
JavaLetterOrDigit
   : [a-zA-Z0-9$\_] // these are the "java letters or digits" below 0x7F
      | // covers all characters above 0x7F which are not a surrogate
      ~[\u0000-\u007Fu\u007Fu\u0080-\uDBFF]
      { Character.isJavaIdentifierPart(_input.LA(-1)) && !Character.isIdentifierIgnorable(_input.LA(-1)) }?
      | // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
      \uD800-\uDBFF \uD800-\uDBFF
      { Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
      ;
{ Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?

fragment
JavaLetterOrDigitInGString
   : JavaLetterOrDigit { _input.LA(-1) != '$' }?

fragment
ShCommand
   : ~[
\u0000\uFFFF]*

// Additional symbols not defined in the lexical specification
//
AT : '@';
ELLIPSIS : '...';

// Whitespace, line escape and comments
//
WS  : ([ \t]+ | LineEscape+) -> skip
;

// Inside (...) and [...] but not {...}, ignore newlines.
NL  : LineTerminator { this.ignoreTokenInsideParens(); }
;

// Multiple-line comments (including groovydoc comments)
ML_COMMENT
   : '/\*' . *? '/\*' { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
;

// Single-line comments
SL_COMMENT
   : '/\*' ~[
\u0000\uFFFF]* { this.ignoreTokenInsideParens(); } -> type(NL)
;

// Script-header comments.
// The very first characters of the file may be "#!". If so, ignore the first line.
SH_COMMENT
   : '#!' { require(0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); } ShCommand (LineTerminator '#!' ShCommand)* -> skip
;

// Unexpected characters will be handled by groovy parser later.
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 */

Found in path(s):
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/asm/StatementMetaTypeChooser.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/expr/VariableExpression.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/sc/transformers/MethodCallExpressionTransformer.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/sc/transformers/StaticCompilationTransformer.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/reflection/stdclasses/ArrayCachedClass.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/ClassNode.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/runtime/GroovyCategorySupport.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/runtime/GroovyCategorySupport.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/util/HashCodeHelper.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/antlr/treewalker/FlatNodeListTraversal.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/SortableASTTransformation.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/tools/StringHelper.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/runtime/m12n/ExtensionModuleScanner.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/ReturnAdder.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/ExternalizeMethodsASTTransformation.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/apache/groovy/parser/antlr4/util/StringUtils.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/Variable.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/transform/stc/FromString.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/control/MultipleCompilationErrorsException.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/cli/internal/CliBuilderInternal.groovy
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/asm/InvocationWriter.java
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* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/expr/AnnotationConstantExpression.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/classgen/asm/MethodCaller.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/inspect/Inspector.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/util/ObjectHolder.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/LogASTTransformation.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/tools/gse/DependencyTracker.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/expr/AnnotationConstantExpression.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/asm/MethodCaller.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/inspect/Inspector.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/util/ObjectHolder.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/LogASTTransformation.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/LogASTTransformation.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/lang/annotation/Incubating.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/lang/annotation/Incubating.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/lang/annotation/Incubating.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/lang/annotation/Incubating.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/lang/annotation/Incubating.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/lang/annotation/Incubating.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/inspect/Inspector.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/inspect/Inspector.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/inspect/Inspector.java
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/runtime/memoize/LRUProtectionStorage.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/sc/transformers/BinaryExpressionTransformer.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/control/io/URLReaderSource.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/control/customizers/CompilationCustomizer.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/control/SourceExtensionHandler.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/beans/DefaultPropertyAccessor.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/sc/transformers/StaticMethodCallExpressionTransformer.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayGetAtMetaMethod.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/BooleanArrayGetAtMetaMethod.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/DoubleArrayGetAtMetaMethod.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/expr/ArgumentListExpression.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/vmplugin/v9/ClassFindFailedException.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/vmplugin/v8/IndyGuardsFiltersAndSignatures.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/EnumCompletionVisitor.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/stmt/ReturnStatement.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/lang/TracingInterceptor.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/runtime/CurriedClosure.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/asm/BinaryDoubleExpressionHelper.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/expr/NotExpression.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/expr/BinaryExpression.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/asm/ShortArrayGetAtMetaMethod.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/asm/DoubleArrayGetAtMetaMethod.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/asm/BooleanArrayGetAtMetaMethod.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/asm/ShortArrayGetAtMetaMethod.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/asm/DoubleArrayGetAtMetaMethod.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/EnumCompletionVisitor.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/stmt/ReturnStatement.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/lang/TracingInterceptor.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/runtime/CurriedClosure.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/asm/BinaryDoubleExpressionHelper.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/expr/NotExpression.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/expr/BinaryExpression.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/runtime/StackTraceUtils.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/FieldASTTransformation.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/vmplugin/v9/Java9.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/ast/ClassCodeVisitorSupport.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/transform/ASTTransformation.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/io/StringBuilderWriter.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/lang/MissingClassException.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/groovy/lang/MetaObjectProtocol.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/classgen/Verifier.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/control/customizers/builder/InlinedASTCustomizerFactory.java

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# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation

Found in path(s):
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation
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* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/antlr/java/java.g
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/antlr/groovy.g
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Found in path(s):
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java
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Found in path(s):
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/package-info.java
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java

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/** Java 1.5 Recognizer
 *
 * Run 'java Main [-showtree] directory-full-of-java-files'
 *
 * [The -showtree option pops up a Swing frame that shows
 * the AST constructed from the parser.]
 *
 * Run 'java Main <directory full of java files>'
 *
 * Contributing authors:
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 * John Mitchelljohnm@non.net
 * Terence Parrparrt@magelang.com
 * John Lilleyjilley@empathy.com
 * Scott Stanchfieldthetick@magelang.com
 * Markus Mohnenmohnen@informatik.rwh-aachen.de
 * Peter Williamspete.williams@sun.com
 * Allan JacobsAllan.Jacobs@eng.sun.com
 * Steve Messickmessick@redhills.com
 * John Pybusjohn@pybus.org
 *
 * Version 1.00 December 9, 1997 -- initial release
 * Version 1.01 December 10, 1997
 * fixed bug in octal def (0..7 not 0..8)
 * Version 1.10 August 1998 (partt)
 * added tree construction
 * fixed definition of WS,comments for mac,pc,unix newlines
*added unary plus
* Version 1.11 (Nov 20, 1998)
* Added "shutup" option to turn off last ambig warning.
* Fixed inner class def to allow named class defs as statements
* synchronized requires compound not simple statement
* add [] after builtInType DOT class in primaryExpression
* "const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
* Changed LITERAL_XXX to xxx in tree grammar.
* Updated java.g to use tokens [...] now for 2.6.0 (new feature).
*
* Version 1.13 (Apr 23, 1999)
* Didn't have (stat)? for else clause in tree parser.
* Didn't gen ASTs for interface extends. Updated tree parser too.
* Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
* Allowed final/abstract on local classes.
* Removed local interfaces from methods
* Put instanceof precedence where it belongs...in relationalExpr
* It also had expr not type as arg; fixed it.
* Missing ! on SEMI in classBlock
* fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
* fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
* Screwed up rule with instanceof in it. :( Fixed.
* Tree parser didn't like (expr).something; fixed.
* Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
* Extending an interface built a wacky tree: had extra EXTENDS.
* Tree grammar didn't allow multiple superinterfaces.
* Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
* ESC lexer rule allowed 399 max not 377 max.
* java.tree.g didn't handle the expression of synchronized
* statements.
* Version 1.18 (August 12, 2001)
* Terence updated to Java 2 Version 1.3 by
* observing/combining work of Allan Jacobs and Steve
* Messick. Handles 1.3 src. Summary:
* o primary didn't include boolean.class kind of thing
* o constructor calls parsed explicitly now:
* see explicitConstructorInvocation
* o add strictfp modifier
* o missing objBlock after new expression in tree grammar
* o merged local class definition alternatives, moved after declaration
* o fixed problem with ClassName.super.field
* o reordered some alternatives to make things more efficient
* o long and double constants were not differentiated from int/float
* whitespace rule was inefficient: matched only one char
* add an examples directory with some nasty 1.3 cases
* made Main.java use buffered IO and a Reader for Unicode support
* supports UNICODE?
  * Using Unicode charVocabulary makes code file big, but only
  * in the bitsets at the end. I need to make ANTLR generate
  * unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
  * Terence added in nice fixes by John Pybus concerning floating
  * constants and problems with super() calls. John did a nice
  * reorg of the primary/postfix expression stuff to read better
  * and makes f.g.super() parse properly (it was METHOD_CALL not
  * a SUPERCTOR_CALL). Also:
  *
  * "finally" clause was a root...made it a child of "try"
* Added stuff for asserts too for Java 1.4, but *commented out*
* as it is not backward compatible.

* Version 1.20 (October 27, 2002)

* Terence ended up reorging John Pybus' stuff to
* remove some nondeterminisms and some syntactic predicates.
* Note that the grammar is stricter now; e.g., this(...) must
* be the first statement.

* Ternary ?: operator wasn't working as array name:
  * (isBig ? bigDigits : digits)[i];

* Checked parser/tree parser on source for
* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
* and the 110k-line jGuru server source.

* Version 1.21 (October 17, 2003)
* Fixed lots of problems including:
* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
* He found a problem/fix with floating point that start with 0
* Ray also fixed problem that (int.class) was not recognized.
* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
* TJP fixed CHAR_LITERAL analogously.

* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
* Notes:
  * We only allow the "extends" keyword and not the "implements"
  * keyword, since that's what JSR14 seems to imply.
  * Thanks to Monty Zukowski for his help on the antlr-interest
  * mail list.
  * Thanks to Alan Eliasen for testing the grammar over his
*Fink source base

* Version 1.22 (July, 2004)
  * Changes by Michael Studman to support Java 1.5 language extensions
  * Notes:
    * o Added support for annotations types
    * o Finished off Matt Quail's generics enhancements to support bound type arguments
    * o Added support for new for statement syntax
    * o Added support for static import syntax
    * o Added support for enum types
    * o Tested against JDK 1.5 source base and source base of jdigraph project
    * o Thanks to Matt Quail for doing the hard part by doing most of the generics work

* Version 1.22.1 (July 28, 2004)
  * Bug/omission fixes for Java 1.5 language support
    * o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
    * o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
    * o Enabled type parameters on constructors, annotations on enum constants and package definitions
    * o Fixed problems when parsing if ((char.class.equals(c))) [ ] - solution by Matt Quail at Cenqua

* Version 1.22.2 (July 28, 2004)
  * Slight refactoring of Java 1.5 language support
    * o Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
    * o Fixed bug where type parameter was not included in generic constructor's branch of AST

* Version 1.22.3 (August 26, 2004)
  * Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
    * and other refactorings
    * o Fixed typeParameters omission in identPrimary and newStatement
    * o Replaced GT reconciliation code with simple semantic predicate
    * o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
    * o Refactored typeDefinition production and field productions to reduce duplication

* Version 1.22.4 (October 21, 2004)
  * Small bux fixes
    * o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
    * o Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. new Outer().<String>super()
    * o Fixed bug in array declarations identified by Geoff Roy

* Version 1.22.4.j.1
  * Changes by Jeremy Rayner to support java2groovy tool
    * o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
    * and have made some changes to enable use by java2groovy tool (Jan 2007)
Based on an original grammar released in the PUBLIC DOMAIN

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/*
 * /opt/cola/permits/1150250136_1627682073.10/groovy-3-0-3-sources-
jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java
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/**
 * The Groovy grammar is based on the official grammar for Java:
 * https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
 */
parser grammar GroovyParser;

options {
  tokenVocab = GroovyLexer;
  contextSuperClass = GroovyParserRuleContext;
  superClass = AbstractParser;
}

@header {
  import java.util.Map;
  import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

  public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {
    private Map metaDataMap = null;

    public GroovyParserRuleContext() {}

    public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
      super(parent, invokingStateNumber);
    }

    @Override
    public Map<?, ?> getMetaDataMap() {
      return this.metaDataMap;
    }

    @Override
    public void setMetaDataMap(Map<?, ?> metaDataMap) {
      this.metaDataMap = metaDataMap;
    }
  }

  @Override
  public Map<?, ?> getMetaDataMap() {
    return this.metaDataMap;
  }

  @Override
  public void setMetaDataMap(Map<?, ?> metaDataMap) {
    this.metaDataMap = metaDataMap;
  }
}
@Override
public int getSyntaxErrorSource() {
    return GroovySyntaxError.PARSER;
}

@Override
public int getErrorLine() {
    Token token = _input.LT(-1);
    if (null == token) {
        return -1;
    }
    return token.getLine();
}

@Override
public int getErrorColumn() {
    Token token = _input.LT(-1);
    if (null == token) {
        return -1;
    }
    return token.getCharPositionInLine() + 1 + token.getText().length();
}

// starting point for parsing a groovy file
compilationUnit
    : nls (packageDeclaration sep?)? scriptStatements? EOF
    ;

scriptStatements
    : scriptStatement (sep scriptStatement)* sep?
    ;

scriptStatement
    : importDeclaration // Import statement. Can be used in any scope. Has "import x as y" also.
       | typeDeclaration
       | statement
    ;

packageDeclaration
    : annotationsOpt PACKAGE qualifiedName
importDeclaration
  :   annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?

;

typeDeclaration
  :   classOrInterfaceModifiersOpt classDeclaration

;

modifier
  :   classOrInterfaceModifier
    | m=(   NATIVE
    |   SYNCHRONIZED
    |   TRANSIENT
    |   VOLATILE
    |   DEF
    |   VAR

)

;

modifiersOpt
  :   (modifiers nls)?

;

modifiers
  :   modifier (nls modifier)*

;

classOrInterfaceModifiersOpt
  :   (classOrInterfaceModifiers
    NL* /* Use `NL*` here for better performance, so DON'T replace it with `nls` */
  )?

;

classOrInterfaceModifiers
  :   classOrInterfaceModifier (nls classOrInterfaceModifier)*

;

classOrInterfaceModifier
  :   annotation   // class or interface
    | m=(   PUBLIC  // class or interface
    |   PROTECTED // class or interface
    |   PRIVATE   // class or interface
    |   STATIC    // class or interface
    |   ABSTRACT  // class or interface
    |   FINAL     // class only -- does not apply to interfaces
variableModifier
   : annotation
   | m=( FINAL
   | DEF
   | VAR
   // Groovy supports declaring local variables as instance/class fields,
   // e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
   // e.g. import groovy.transform.*; def a = { @Field public List awe = [1, 2, 3] }
   // Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using
   // TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g.
   // benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it
   // as it is for the time being
   | PUBLIC
   | PROTECTED
   | PRIVATE
   | STATIC
   | ABSTRACT
   | STRICTFP
   )
   ;

variableModifiersOpt
   : (variableModifiers nls)?
   ;

variableModifiers
   : variableModifier (nls variableModifier)*
   ;

typeParameters
   : LT nls typeParameter (COMMA nls typeParameter)* nls GT
   ;

typeParameter
   : className (EXTENDS nls typeBound)?
   ;

typeBound
   : type (BITAND nls type)*
   ;

typeList
**

* t  0: class; 1: interface; 2: enum; 3: annotation; 4: trait
**/

classDeclaration

locals[ int t ]

: (  CLASS { $t = 0; }  
|   INTERFACE { $t = 1; }  
|   ENUM { $t = 2; }  
|   AT INTERFACE { $t = 3; }  
|   TRAIT { $t = 4; }  
  )

identifier

(typeParameters)?

(EXTENDS nls scs=typeList)?

(IMPLEMENTS nls is=typeList)?

nls classBody[$t]

:// t  see the comment of classDeclaration
classBody[int t]

: LBRACE nls

(  
  /* Only enum can have enum constants */
  { 2 == $t }?
    enumConstants (COMMA nls enumConstant)*
  |  
  )

  (classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*? sep? RBRACE

  enumConstants

  : enumConstant (COMMA nls enumConstant)*

  :

  enumConstant

  : annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?

  :

  classBodyDeclaration[int t]

  : (STATIC nls)? block
  |  memberDeclaration[$t]

  :

  memberDeclaration[int t]

---

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methodDeclaration[int t, int ct]
: modifiersOpt
   ( 3 == $ct )?
       returnType[$ct] methodName LPAREN rparen (DEFAULT nls elementValue)?
   |
       typeParameters? returnType[$ct]?
       methodName formalParameters (nls THROWS nls qualifiedClassNameList)?
       (nls methodBody)?
   )
;

methodName
: identifier
 | stringLiteral
 ;

returnType[int ct]
:
    standardType
 | VOID
 ;

fieldDeclaration
: variableDeclaration[1]
 ;

variableDeclarators
: variableDeclarator (COMMA nls variableDeclarator)*
 ;

variableDeclarator
: variableDeclaratorId (nls ASSIGN nls variableInitializer)?
 ;

variableDeclaratorId
: identifier
 ;
variableInitializer
   : enhancedStatementExpression
   ;

variableInitializers
   : variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
   ;

emptyDims
   : (annotationsOpt LBRACK RBRACK)+
   ;

emptyDimsOpt
   : emptyDims?
   ;

standardType
   options { baseContext = type; }
   : annotationsOpt
     (primitiveType
     | standardClassOrInterfaceType
     )
     emptyDimsOpt
   ;

type
   : annotationsOpt
     ( (primitiveType
     | // !!! Error Alternative !!!
       VOID
     )
     | generalClassOrInterfaceType
     )
     emptyDimsOpt
   ;

classOrInterfaceType
   : ( qualifiedClassName
     | qualifiedStandardClassName
     ) typeArguments?
   ;
generalClassOrInterfaceType
   options { baseContext = classOrInterfaceType; }
   : qualifiedClassName typeArguments?

standardClassOrInterfaceType
   options { baseContext = classOrInterfaceType; }
   : qualifiedStandardClassName typeArguments?

primitiveType
   : BuiltInPrimitiveType

typeArguments
   : LT nls typeArgument (COMMA nls typeArgument)* nls GT

typeArgument
   : type
     | annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?

annotatedQualifiedClassName
   : annotationsOpt qualifiedClassName

qualifiedClassNameList
   : annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*

formalParameters
   : LPAREN formalParameterList? rparen

formalParameterList
   : (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*

thisFormalParameter
   : type THIS

formalParameter
   : variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
methodBody
  : block
  ;

qualifiedName
  : qualifiedNameElement (DOT qualifiedNameElement)*
  ;

/**
 * Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
 * for them in package names for better integration with existing Java packages
 */
qualifiedNameElement
  : identifier
    | DEF
    | IN
    | AS
    | TRAIT
  ;

qualifiedNameElements
  : (qualifiedNameElement DOT)*
  ;

qualifiedClassName
  : qualifiedNameElements identifier
  ;

qualifiedStandardClassName
  : qualifiedNameElements className (DOT className)*
  ;

literal
  : IntegerLiteral              #integerLiteralAlt
    | FloatingPointLiteral        #floatingPointLiteralAlt
    | stringLiteral               #stringLiteralAlt
    | BooleanLiteral              #booleanLiteralAlt
    | NullLiteral                 #nullLiteralAlt
  ;

// GSTRING

gstring
  : GStringBegin gstringValue (GStringPart gstringValue) GStringEnd
  ;

gstringValue
  : gstringPath
gstringPath
  : identifier GStringPathPart*
  
  // LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
:lambdaParameters nls ARROW nls lambdaBody

  // JAVA STANDARD LAMBDA EXPRESSION
standardLambdaExpression
:standardLambdaParameters nls ARROW nls lambdaBody

lambdaParameters
options { baseContext = standardLambdaParameters; }
  : formalParameters

  // { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
  // So it is better to put parameters in the parentheses and the following single parameter without parentheses is limited
  //   |   variableDeclaratorId

standardLambdaParameters
  : formalParameters
  | variableDeclaratorId

lambdaBody
  : block
  | statementExpression

  // CLOSURE
closure
  : LBRACE nls (formalParameterList? nls ARROW nls)? blockStatementsOpt RBRACE

  // GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
  : closure
  | lambdaExpression
blockStatementsOpt
  : blockStatements?
  :

blockStatements
  : blockStatement (sep blockStatement)* sep?
  :

// ANNOTATIONS

annotationsOpt
  : (annotation (nls annotation)* nls)?
  :

annotation
  : AT annotationName ( LPAREN elementValues? rparen)?
  :

elementValues
  : elementValuePairs
  | elementValue
  :

annotationName : qualifiedClassName :

elementValuePairs
  : elementValuePair (COMMA elementValuePair)*
  :

elementValuePair
  : elementValuePairName nls ASSIGN nls elementValue
  :

elementValuePairName
  : identifier
  | keywords
  :

// TODO verify the potential performance issue because rule expression contains sub-rule assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
  : elementValueArrayInitializer
  | annotation
  | expression
  :
elementValueArrayInitializer
  : LBRACK elementValue (COMMA elementValue)* COMMA? RBRACK

// STATEMENTS / BLOCKS

block
  : LBRACE sep? blockStatementsOpt RBRACE

blockStatement
  : localVariableDeclaration
  | statement

localVariableDeclaration
  : { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
    variableDeclaration[0]

/**
 *  t  0: local variable declaration; 1: field declaration
 */
variableDeclaration[int t]
  : modifiers nls
    ( type? variableDeclarators
      | typeNamePairs nls ASSIGN nls variableInitializer
    )
    | type variableDeclarators

typeNamePairs
  : LPAREN typeNamePair (COMMA typeNamePair)* rparen

typeNamePair
  : type? variableDeclaratorId

variableNames
  : LPAREN variableDeclaratorId (COMMA variableDeclaratorId)* rparen

conditionalStatement
  : ifElseStatement
  | switchStatement

ifElseStatement
  :   IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?
   ;

switchStatement
  :   SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE
   ;

loopStatement
  :   FOR LPAREN forControl rparen nls statement                        #forStmtAlt
  |   WHILE expressionInPar nls statement                               #whileStmtAlt
  |   DO nls statement nls WHILE expressionInPar                       #doWhileStmtAlt
   ;

continueStatement
  :   CONTINUE
       identifier?
   ;

breakStatement
  :   BREAK
       identifier?
   ;

tryCatchStatement
  :   TRY resources? nls block
       (nls catchClause)*
       (nls finallyBlock)?
   ;

assertStatement
  :   ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
   ;

statement
  :   block                             #blockStmtAlt
  |   conditionalStatement             #conditionalStmtAlt
  |   loopStatement                    #loopStmtAlt
  |   tryCatchStatement                #tryCatchStmtAlt
  |   SYNCHRONIZED expressionInPar nls block                                  #synchronizedStmtAlt
  |   RETURN expression?              #returnStmtAlt
  |   THROW expression                 #throwStmtAlt
  |   breakStatement                   #breakStmtAlt
  |   continueStatement                #continueStmtAlt
  |   identifier COLON nls statement   #labeledStmtAlt
  |   assertStatement                  #assertStmtAlt
  |   localVariableDeclaration         #localVariableDeclarationStmtAlt
// validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
|   { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?  
methodDeclaration[3, 9]   #methodDeclarationStmtAlt
|   statementExpression     #expressionStmtAlt
|   SEMI                    #emptyStmtAlt
;

catchClause
   : CATCH LPAREN variableModifiersOpt catchType? identifier rparen nls block
   ;

catchType
   : qualifiedClassName (BITOR qualifiedClassName)*
   ;

finallyBlock
   : FINALLY nls block
   ;

resources
   : LPAREN nls resourceList sep? rparen
   ;

resourceList
   : resource (sep resource)*
   ;

resource
   : localVariableDeclaration
   | expression
   ;

/** Matches cases then statements, both of which are mandatory.
  * To handle empty cases at the end, we add switchLabel* to statement.
  */
switchBlockStatementGroup
   : switchLabel (nls switchLabel)* nls blockStatements
   ;

switchLabel
   : CASE expression COLON
   | DEFAULT COLON
   ;

forControl
enhancedForControl
    : variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
    ;

classicalForControl
    : forInit? SEMI expression? SEMI forUpdate?
    ;

forInit
    : localVariableDeclaration
      | expressionList[false]
    ;

forUpdate
    : expressionList[false]
    ;

// EXPRESSIONS

castParExpression
    : LPAREN type rparen
    ;

parExpression
    : expressionInPar
    ;

expressionInPar
    : LPAREN enhancedStatementExpression rparen
    ;

eexpressionList[boolean canSpread]
    : expressionListElement[$canSpread] (COMMA expressionListElement[$canSpread])* 
    ;

eexpressionListElement[boolean canSpread]
    : MUL? expression
    ;

enhancedStatementExpression
    : statementExpression
      | standardLambdaExpression
    ;
statementExpression
: commandExpression #commandExprAlt
;

postfixExpression
: pathExpression op=(INC | DEC)?
;

expression
// qualified names, array expressions, method invocation, post inc/dec, type casting (level 1)
// The cast expression must be put before pathExpression to resolvle the ambiguities between type casting and call
on parentheses expression, e.g. (int)(1 / 2)
: castParExpression castOperandExpression #castExprAlt
| postfixExpression #postfixExprAlt

// ~(BNOT)!(LNOT) (level 1)
| (BITNOT | NOT) nls expression #unaryNotExprAlt

// math power operator (**) (level 2)
| left=expression op=POWER nls right=expression #powerExprAlt

// ++(prefix)/--(prefix)/+(unary)/-(unary) (level 3)
| op=(INC | DEC | ADD | SUB) expression #unaryAddExprAlt

// multiplication/division/modulo (level 4)
| left=expression nls op=(MUL | DIV | MOD) nls right=expression #multiplicativeExprAlt

// binary addition/subtraction (level 5)
| left=expression op=(ADD | SUB) nls right=expression #additiveExprAlt

// bit shift expressions (level 6)
| left=expression nls
  ( dlOp=LT LT
    | tgOp=GT GT GT
    | dgOp=GT GT
  )
  | rangeOp=( RANGE_INCLUSIVE
    | RANGE_EXCLUSIVE
  )
) nls
right=expression #shiftExprAlt

// boolean relational expressions (level 7)
| left=expression nls op=(AS | INSTANCEOF | NOT_INSTANCEOF) nls type #relationalExprAlt
| left=expression nls op=(LE | GE | GT | LT | IN | NOT_IN) nls right=expression #relationalExprAlt

// equality/inequality (==/!=) (level 8)
```plaintext
left=expression nls
 op=( IDENTICAL
     NOT_IDENTICAL
     EQUAL
     NOTEQUAL
     SPACESHIP
  ) nls
right=expression

// regex find and match (=- and ==-) (level 8.5)
// jez: moved =~ closer to precedence of == etc, as...
// 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
left=expression nls op=(REGEX_FIND | REGEX_MATCH) nls right=expression

// bitwise or non-short-circuiting and (&)  (level 9)
left=expression nls op=BITAND nls right=expression

// exclusive or (^)  (level 10)
left=expression nls op=XOR nls right=expression

// bitwise or non-short-circuiting or (|)  (level 11)
left=expression nls op=BITOR nls right=expression

// logical and (&&)  (level 12)
left=expression nls op=AND nls right=expression

// logical or (||)  (level 13)
left=expression nls op=OR nls right=expression

// conditional test (level 14)
<assoc=right> con=expression nls
 ( QUESTION nls tb=expression nls COLON nls
   ELVIS nls
 )
fb=expression

// assignment expression (level 15)
// "(a = [1])" is a special case of multipleAssignmentExprAlt, it will be handle by assignmentExprAlt
<assoc=right> left=variableNames nls op=ASSIGN nls right=statementExpression

<assoc=right> left=expression nls
 op=( ASSIGN
     ADD_ASSIGN
     SUB_ASSIGN
     MUL_ASSIGN
     DIV_ASSIGN
     AND_ASSIGN
     OR_ASSIGN
 )
```

| XOR_ASSIGN |
| RSHIFT_ASSIGN |
| URSHIFT_ASSIGN |
| LSHIFT_ASSIGN |
| MOD_ASSIGN |
| POWER_ASSIGN |
| ELVIS_ASSIGN |

) nls

enhancedStatementExpression  #assignmentExprAlt
;

castOperandExpression

options { baseContext = expression; }
  : castParExpression castOperandExpression  #castExprAlt
  | postfixExpression  #postfixExprAlt

// ~(BNOT)!/(LNOT) (level 1)
| (BITNOT | NOT) nls castOperandExpression  #unaryNotExprAlt

// ++(prefix)/--(prefix)/+(unary)/-(unary) (level 3)
| op=(INC | DEC | ADD | SUB) castOperandExpression  #unaryAddExprAlt
;

commandExpression

: expression

  ( [ !SemanticPredicates.isFollowingArgumentsOrClosure($expression.ctx) ] ?
    argumentList
   | /* if pathExpression is a method call, no need to have any more arguments */
)  

commandArgument*
;

commandArgument

: commandPrimary

  // what follows is either a normal argument, parens,
  // an appended block, an index operation, or nothing
  // parens (a b already processed):
  //  a b c() d e -> a(b).c().d(e)
  //  a b c() d e -> a(b).c().call().d(e)
  // index (a b already processed):
  //  a b c[x] d e -> a(b).c[x].d(e)
  //  a b c[x][y] d e -> a(b).c[x][y].d(e)
  // block (a b already processed):
  //  a b c {x} d e -> a(b).c({x}).d(e)
// parens/block completes method call
// index makes method call to property get with index

( pathElement+
| argumentList
)?
;

/**
 * A "path expression" is a name or other primary, possibly qualified by various
 * forms of dot, and/or followed by various kinds of brackets.
 * It can be used for value or assigned to, or else further qualified, indexed, or called.
 * It is called a "path" because it looks like a linear path through a data structure.
 * Examples:  x.y, x?.y, x*.y, x.@y; x[ ]. x[y], x[y,z]; x(), x(y), x(y,z); x[s ]; a.b[n ].c(x).d[ s]
 * (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)
 * General expressions are built up from path expressions, using operators like '+' and '='.
 *
 * t 0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5: namedPropertyArgs,
 * 6: non-static inner class creator
 */

pathExpression returns [int t]
  : primary (pathElement { $t = $pathElement.t; })*
  ;

pathElement returns [int t]
  : nls

     // AT: foo.@bar selects the field (or attribute), not property
     {
       ( DOT     // The all-powerful dot.
       | SPREAD_DOT   // Spread operator: x*.y === x?.collect{it.y}
       | SAFE_DOT     // Optional-null operator: x?.y === (x==null)?null:x.y
       | SAFE_CHAIN_DOT // Optional-null chain operator: x???.y.z === x?.y?.z
     ) nls (AT | nonWildcardTypeArguments)?
     |
     METHOD_POINTER nls     // Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo, "y")
     |
     METHOD_REFERENCE nls    // Method reference: System.out::println
 )

namePart
  [ $t = 1; ]
|
DOT nls NEW creator[1]
  [ $t = 6; ]
// Can always append a block, as foo{bar}
| closureOrLambdaExpression
  { $t = 3; }
|
| arguments
  { $t = 2; }

// Element selection is always an option, too.
// In Groovy, the stuff between brackets is a general argument list,
// since the bracket operator is transformed into a method call.
| indexPropertyArgs
  { $t = 4; }
|
| namedPropertyArgs
  { $t = 5; }
|
| ;

/**
 * This is the grammar for what can follow a dot: x.a, x.@a, x.&a, x.'a', etc.
 */
namePart
  :
    ( identifier

// foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
| stringLiteral
|
| dynamicMemberName

/* just a PROPOSAL, which has not been implemented yet!
// PROPOSAL, DECIDE: Is this inline form of the 'with' statement useful?
// Definition: a.{foo} === {with(a) {foo}}
// May cover some path expression use-cases previously handled by dynamic scoping (closure delegates).
| block
*/

// let's allow common keywords as property names
| keywords
|
| ;

/**
 * If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
 * and the member selection is done only at runtime. This forces a statically unchecked member access.
 */
dynamicMemberName
  : parExpression
/** An expression may be followed by [...].
* Unlike Java, these brackets may contain a general argument list,
* which is passed to the array element operator, which can make of it what it wants.
* The brackets may also be empty, as in T[]. This is how Groovy names array types.
*/

indexPropertyArgs
  :  QUESTION? LBRACK expressionList[true]? RBRACK
    ;

namedPropertyArgs
  :  QUESTION? LBRACK (namedPropertyArgList | COLON) RBRACK
    ;

primary
  :
    // Append `typeArguments?` to `identifier` to support constructor reference with generics, e.g.
    HashMap<String, Integer>::new
    // Though this is not a graceful solution, it is much faster than replacing `builtInType` with `type`
    identifier typeArguments?
    #identifierPrmrAlt
    | literal
    #literalPrmrAlt
    | gstring
    #gstringPrmrAlt
    | NEW nls creator[0]
    #newPrmrAlt
    | THIS
    #thisPrmrAlt
    | SUPER
    #superPrmrAlt
    | parExpression
    #parenPrmrAlt
    | closureOrLambdaExpression
    #closureOrLambdaExpressionPrmrAlt
    | list
    #listPrmrAlt
    | map
    #mapPrmrAlt
    | builtInType
    #builtInTypePrmrAlt
    ;

namedPropertyArgPrimary
  options { baseContext = primary; }
  :  identifier
    #identifierPrmrAlt
    | literal
    #literalPrmrAlt
    | gstring
    #gstringPrmrAlt
    | parExpression
    #parenPrmrAlt
    ;

commandPrimary
  options { baseContext = primary; }
  :  identifier
    #identifierPrmrAlt
    | literal
    #literalPrmrAlt
    | gstring
    #gstringPrmrAlt
    ;
creator[int t]

/docs/15673

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createdName
  ( nls arguments anonymousInnerClassDeclaration[0]?
    | dim+ (nls arrayInitializer)?
  )

; 

dim
  : annotationsOpt LBRACK expression? RBRACK
  ; 

arrayInitializer
  : LBRACE nls (variableInitializers nls)? RBRACE
  ;

/**
* t 0: anonymous inner class; l: anonymous enum
**/
anonymousInnerClassDeclaration[int t]
  : classBody[0]
  ;

createdName
  : annotationsOpt
    ( primitiveType
      | qualifiedClassName typeArgumentsOrDiamond?
    )
  ;

nonWildcardTypeArguments
  : LT nls typeList nls GT
  ;

typeArgumentsOrDiamond
  : LT GT
    | typeArguments
    ;

arguments
  : LPAREN enhancedArgumentList? COMMA? rparen
  ;

argumentList
  options { baseContext = enhancedArgumentList; }
    : argumentListElement
      ( COMMA nls
d        argumentListElement
      )*
    ;
enhancedArgumentList
  :  enhancedArgumentListElement
  (  COMMA nls
      enhancedArgumentListElement
  )*
  ;

argumentListElement
options { baseContext = enhancedArgumentListElement; }
  :  expressionListElement[true]
  |  namedPropertyArg
  ;

enhancedArgumentListElement
  :  expressionListElement[true]
  |  standardLambdaExpression
  |  namedPropertyArg
  ;

stringLiteral
  :  StringLiteral
  ;

className
  :  CapitalizedIdentifier
  ;

identifier
  :  Identifier
  |  CapitalizedIdentifier
  |  VAR
  |  IN
  //  |  DEF
  |  TRAIT
  |  AS
  |
  // if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }
  { DOT == _input.LT(2).getType() }?
    STATIC
  ;

builtInType
  :  BuiltInPrimitiveType
  |  VOID
  ;

keywords
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Found in path(s):
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/org/codehaus/groovy/control/io/package.html
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/overview.html
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# Format: one extension on each line without the leading "*.
# Listed below are default groovy source file extensions.

# NOTE: This implementation of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
# groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy

Found in path(s):
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions
No license file was found, but licenses were detected in source scan.

/** JSR-241 Groovy Recognizer.
 *
* Run 'java Main [-showtree] directory-full-of-groovy-files'
*
* [The -showtree option pops up a Swing frame that shows
* the AST constructed from the parser.]
*
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Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 15679
* Alex Popescu the.mindstorm@gmail.com
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* Reto Kleeb rklee@hsr.ch

* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
  * fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
  * added tree construction
  * fixed definition of WS, comments for mac, pc, unix newlines
  * added unary plus
* Version 1.11 (Nov 20, 1998)
  * Added "shutup" option to turn off last ambig warning.
  * Fixed inner class def to allow named class defs as statements
  * synchronized requires compound not simple statement
  * add [] after builtInType DOT class in primaryExpression
  * "const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
  * Changed LITERAL__xxx to xxx in tree grammar.
  * Updated java.g to use tokens {...} now for 2.6.0 (new feature).

* Version 1.13 (Apr 23, 1999)
  * Didn't have (stat)? for else clause in tree parser.
  * Didn't gen ASTs for interface extends. Updated tree parser too.
  * Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
  * Allowed final/abstract on local classes.
  * Removed local interfaces from methods
  * Put instanceof precedence where it belongs...in relationalExpr
  * It also had expr not type as arg; fixed it.
  * Missing ! on SEMI in classBlock
  * fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
  * fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
  * Screwed up rule with instanceof in it. :( Fixed.
  * Tree parser didn't like (expr).something; fixed.
  * Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
  * Extending an interface built a wacky tree: had extra EXTENDS.
  * Tree grammar didn't allow multiple superinterfaces.
  * Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
  * ESC lexer rule allowed 399 max not 377 max.
  * java.tree.g didn't handle the expression of synchronized
  * statements.
* Version 1.18 (August 12, 2001)
  * Terence updated to Java 2 Version 1.3 by
  * observing/combining work of Allan Jacobs and Steve
Messick. Handles 1.3 src. Summary:
- primary didn't include boolean.class kind of thing
- constructor calls parsed explicitly now:
  - see explicitConstructorInvocation
- add strictfp modifier
- missing objBlock after new expression in tree grammar
- merged local class definition alternatives, moved after declaration
- fixed problem with ClassName.super.field
- reordered some alternatives to make things more efficient
- long and double constants were not differentiated from int/float
- whitespace rule was inefficient: matched only one char
- add an examples directory with some nasty 1.3 cases
- made Main.java use buffered IO and a Reader for Unicode support
- supports UNICODE?
  - Using Unicode charVocabulary makes code file big, but only
  - in the bitsets at the end. I need to make ANTLR generate
  - unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
  - Terence added in nice fixes by John Pybus concerning floating
    constants and problems with super() calls. John did a nice
    reorg of the primary/postfix expression stuff to read better
    and makes f.g.super() parse properly (it was METHOD_CALL not
    a SUPER_CTOR_CALL). Also:
  - "finally" clause was a root...made it a child of "try"
  - Added stuff for asserts too for Java 1.4, but *commented out*
    as it is not backward compatible.

* Version 1.20 (October 27, 2002)
  - Terence ended up reorging John Pybus' stuff to
    remove some nondeterminisms and some syntactic predicates.
    Note that the grammar is stricter now; e.g., this(...) must
    be the first statement.
  - Trinary ?: operator wasn't working as array name:
    (isBig ? bigDigits : digits)[i];
  - Checked parser/tree parser on source for
    Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
    and the 110k-line jGuru server source.

* Version 1.21 (October 17, 2003)
  - Fixed lots of problems including:
    - Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
    - He found a problem/fix with floating point that start with 0
    - Ray also fixed problem that (int.class) was not recognized.
    - Thorsten van Ellen noticed that 'n are allowed incorrectly in strings.
* TJP fixed CHAR_LITERAL analogously.

  * Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
  * Notes:
  * o We only allow the "extends" keyword and not the "implements"
    keyword, since that's what JSR14 seems to imply.
  * o Thanks to Monty Zukowski for his help on the antlr-interest
    mail list.
  * o Thanks to Alan Eliasen for testing the grammar over his
    Fink source base

* Version 1.22 (July, 2004)
  * Changes by Michael Studman to support Java 1.5 language extensions
  * Notes:
  * o Added support for annotations types
  * o Finished off Matt Quail's generics enhancements to support bound type arguments
  * o Added support for new for statement syntax
  * o Added support for static import syntax
  * o Added support for enum types
  * o Tested against JDK 1.5 source base and source base of jdigraph project
  * o Thanks to Matt Quail for doing the hard part by doing most of the generics work

* Version 1.22.1 (July 28, 2004)
  * Bug/omission fixes for Java 1.5 language support
  * o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
    spotting this
  * o Fixed bug where incorrect handling of SR and BSR tokens would cause type
    parameters to be recognised as type arguments.
  * o Enabled type parameters on constructors, annotations on enum constants
    and package definitions
  * o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua

* Version 1.22.2 (July 28, 2004)
  * Slight refactoring of Java 1.5 language support
  * o Refactored for/"foreach" productions so that original literal "for" literal
    is still used but the for sub-clauses vary by token type
  * o Fixed bug where type parameter was not included in generic constructor's branch of AST

* Version 1.22.3 (August 26, 2004)
  * Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
  * and other refactorings
  * o Fixed typeParameters omission in identPrimary and newStatement
  * o Replaced GT reconciliation code with simple semantic predicate
  * o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
  * o Refactored typeDefinition production and field productions to reduce duplication

* Version 1.22.4 (October 21, 2004)
* Small bux fixes
*   * Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
*   * Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. new Outer().<String>super()
*   * Fixed bug in array declarations identified by Geoff Roy
*   *
* Version 1.22.4.g.1
*   * I have taken java.g for Java1.5 from Michael Studman (1.22.4)
*   * and have applied the groovy.diff from java.g (1.22) by John Rose
*   * back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
*   *
* Version 1.22.4.g.2
*   * mkempf, rkleeb, Dec 2007
*   * fixed various rules so that they call the correct Create Method
*   * to make sure that the line information are correct
*   *
* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
* /opt/cola/permits/1150250136_1627682073.1/0/groovy-3-0-3-sources-
jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java

1.1687 pin-tftp v2.1.0+incompatible

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1.1688 pylint 2.3.1

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1.1689 kotlin 1.3.70

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```javascript
function(root, factory) {
    if (typeof define === 'function' && define.amd) {
        define('kotlin', ['exports'], factory);
    }
    else if (typeof exports === 'object') {
        factory(module.exports);
    }
    else {
        root.kotlin = {};
        factory(root.kotlin);
    }
}

Kotlin.isBooleanArray = function (a) {
    return (Array.isArray(a) || a instanceof Int8Array) && a.$type$ === "BooleanArray"
};

Kotlin.isByteArray = function (a) {
    return a instanceof Int8Array && a.$type$ !== "BooleanArray"
};

Kotlin.isShortArray = function (a) {
    return a instanceof Int16Array
};

Kotlin.isCharArray = function (a) {
    return a instanceof Uint16Array && a.$type$ === "CharArray"
};

Kotlin.isIntArray = function (a) {
    return a instanceof Int32Array
};

Kotlin.isFloatArray = function (a) {
    return a instanceof Float32Array
};

Kotlin.isDoubleArray = function (a) {
    return a instanceof Float64Array
};

Kotlin.isArray = function (a) {
    return Array.isArray(a) && !a.$type$;
};

Kotlin.isArrayish = function (a) {
    return Array.isArray(a) || ArrayBuffer.isView(a)
};

Kotlin.arrayToString = function (a) {
    var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;
    return "[\n    " + Array.prototype.map.call(a, function(e) { return toString(e); }).join(", ") + "\n    ]"
};

Kotlin.arrayDeepToString = function (arr) {
    return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);
};

Kotlin.arrayEquals = function (a, b) {
    if (a === b) {
        return true;
    } else if (a.length !== b.length) {
        return false;
    } else {
        for (var i = 0, n = a.length; i < n; i++) {
            if (a[i] !== b[i]) {
                return false;
            }
        }
        return true;
    }
}

Kotlin.arrayDeepEquals = function (a, b) {
    return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);
};
```
var hash = (Math.random() * pow_2_32) | 0; // Make 32-bit signed integer.

Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, {
    value: hash, enumerable: false });

return

function get_string_hash_code(str) {
    var hash = 0;

    for (var i = 0; i < str.length; i++) {
        var code = str.charCodeAt(i);
        hash = (hash * 31 + code) | 0; // Keep it 32-bit.
    }
}

Kotlin.identityHashCode = get_object_hash_code;

/*
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 */

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//

/**
 * Constructs a 64-bit two's-complement integer, given its low and high 32-bit * values as *signed* integers. See the from* functions below for more convenient ways of constructing Longs.

 * @constructor
 * @final
 */
Kotlin.Long = function(low, high) {
  /**
   *
   * @param {number} low The low (signed) 32 bits of the long.
   * @param {number} high The high (signed) 32 bits of the long.
   * @constructor
   * @final
   */
  this.low_ = low | 0;  // force into 32 signed bits.

  /**
   * @param {number} value The 32-bit integer in question.
   * @return {!Kotlin.Long} The corresponding Long value.
   */
Kotlin.Long.fromInt = function(value) {
  if (-128 <= value && value < 128) {
    var cachedObj = Kotlin.Long.IntCache_[value];
    if (cachedObj) {
      return cachedObj;
    }
  }

  var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);
  if (-128 <= value && value < 128) {
  }
  return obj;
}

/**
 * Returns a Long representation of the given (32-bit) integer value.
 * The 32-bit integer in question.
 * 
 * @return {!Kotlin.Long} The corresponding Long value.
 */
Kotlin.Long.fromNumber = function(value) {
  if (isNaN(value)) {
    return Kotlin.Long.ZERO;
  } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MIN_VALUE;
  } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MAX_VALUE;
  } else if (value < 0 ? 1 : 0) {
    if (-128 <= value && value < 128) {
      return cachedObj = Kotlin.Long.IntCache_[value];
    }
    ((cachedObj) {
      return cachedObj;
    })

    var obj = new Kotlin.Long(value % Kotlin.Long.TWO_PWR_32_DBL_, value / Kotlin.Long.TWO_PWR_32_DBL_);
    if (cachedObj) {
      return cachedObj;
    }
    return new Kotlin.Long(value % Kotlin.Long.TWO_PWR_32_DBL_, value / Kotlin.Long.TWO_PWR_32_DBL_);
}

/**
 * Converts this number value to 'Long'.
 * 
 * @return {number} The fractional part, if any, is rounded down towards zero.
 * @return zero if this 'Double' value is 'NaN', 'Long.MIN_VALUE' if it's less than 'Long.MIN_VALUE', 'Long.MAX_VALUE' if it's bigger than 'Long.MAX_VALUE', '0' and '1' otherwise.
 */
Kotlin.Long.valueOf = function(value) {
  if (isNaN(value)) {
    return Kotlin.Long.ZERO;
  } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MIN_VALUE;
  } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MAX_VALUE;
  } else if (value < 0) {
    return Kotlin.Long.fromNumber(-value).negate();
  } else {
    return new Kotlin.Long(value % Kotlin.Long.TWO_PWR_32_DBL_, value / Kotlin.Long.TWO_PWR_32_DBL_);
}

/**
 * Returns a Long representing the 64-bit integer that comes by concatenating the given high and low bits. Each is assumed to use 32 bits.
 * @return {number} The 64-bit integer.
 */
Kotlin.Long.valueOf = function(lowBits, highBits) {
  return new Kotlin.Long(lowBits, highBits);
}

/**
 * Returns a Long representation of the given string, written using the given radix.
 * 
 * @return {number} The fractional part, if any, is rounded down towards zero.
 * @return zero if this 'Double' value is 'NaN', 'Long.MIN_VALUE' if it's less than 'Long.MIN_VALUE', 'Long.MAX_VALUE' if it's bigger than 'Long.MAX_VALUE', '0' and '1' otherwise.
 */
Kotlin.Long.valueOf = function(str, radix) {
  if (isNaN(value)) {
    return Kotlin.Long.ZERO;
  } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MIN_VALUE;
  } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MAX_VALUE;
  } else if (value < 0) {
    return Kotlin.Long.fromNumber(-value).negate();
  } else {
    return new Kotlin.Long(value % Kotlin.Long.TWO_PWR_32_DBL_, value / Kotlin.Long.TWO_PWR_32_DBL_);
}

*/
representation of the Long.\n * @param {number=} opt_radix The radix in which the text is written.\n * @return
{!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromString = function(str, opt_radix) {\n if
(str.length == 0) {\n throw Error('number format error: empty string');\n }\n\n var radix = opt_radix || 10;\n if
(radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n }\n\n if (str.charAt(0) == '-') {\n return
Kotlin.Long.fromString(str.substring(1), radix).negate();\n } else if (str.indexOf('-') >= 0) {\n throw Error('number
format error: interior \"-\" character: ' + str);\n }\n\n // Do several (8) digits each time through the loop, so as to\n //
minimize the calls to the very expensive emulated div.\n var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 8));\n\n var result = Kotlin.Long.ZERO;\n for (var i = 0; i < str.length;
i += 8) {\n var size = Math.min(8, str.length - i);\n var value = parseInt(str.substring(i, i + size), radix);\n if
(size < 8) {\n
var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n
result =
result.multiply(power).add(Kotlin.Long.fromNumber(value));\n } else {\n
result =
result.multiply(radixToPower);\n
result = result.add(Kotlin.Long.fromNumber(value));\n }\n }\n return
result;\n};\n\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these
variables, so there should be no runtime penalty for these.\n\n\n/**\n * Number used repeated below in calculations.
This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_32_DBL_ =\n Kotlin.Long.TWO_PWR_16_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_31_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n\n/**\n * @type
{number}\n * @private\n */\nKotlin.Long.TWO_PWR_48_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_64_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_63_DBL_ =\n Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n\n/** @type
{!Kotlin.Long} */\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n\n/** @type {!Kotlin.Long}
*/\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.NEG_ONE =
Kotlin.Long.fromInt(-1);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.MAX_VALUE =\n
Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n/** @type {!Kotlin.Long}
*/\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n/**\n * @type {!Kotlin.Long}\n *
@private\n */\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\n\n\n/** @return {number} The
value, assuming it is a 32-bit integer. */\nKotlin.Long.prototype.toInt = function() {\n return this.low_;\n};\n\n\n/**
@return {number} The closest floating-point representation to this value. */\nKotlin.Long.prototype.toNumber =
function() {\n return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\n
this.getLowBitsUnsigned();\n};\n\n/** @return {number} The 32-bit hashCode of this value.
*/\nKotlin.Long.prototype.hashCode = function() {\n return this.high_ ^ this.low_;\n};\n\n/**\n * @param
{number=} opt_radix The radix in which the text should be written.\n * @return {string} The textual representation
of this value.\n * @override\n */\nKotlin.Long.prototype.toString = function(opt_radix) {\n var radix = opt_radix ||
10;\n if (radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n }\n\n if (this.isZero()) {\n
return '0';\n }\n\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n
// We need to
change the Long value before it can be negated, so we remove\n
// the bottom-most digit in this base and then
recurse to do the rest.\n
var radixLong = Kotlin.Long.fromNumber(radix);\n
var div = this.div(radixLong);\n
var rem = div.multiply(radixLong).subtract(this);\n
return div.toString(radix) + rem.toInt().toString(radix);\n }
else {\n
return '-' + this.negate().toString(radix);\n }\n }\n\n // Do several (6) digits each time through the loop,
so as to\n // minimize the calls to the very expensive emulated div.\n var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 6));\n\n var rem = this;\n var result = '';\n while (true) {\n var
remDiv = rem.div(radixToPower);\n var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();\n var
digits = intval.toString(radix);\n\n rem = remDiv;\n if (rem.isZero()) {\n
return digits + result;\n } else {\n

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while (digits.length < 6) {
        digits = '0' + digits;
      }
      result = '' + digits + result;
    }
  }
};


/** @return {number} The high 32-bits as a signed value. */
Kotlin.Long.prototype.getHighBits = function() {
  return this.high_;
};


/** @return {number} The low 32-bits as a signed value. */
Kotlin.Long.prototype.getLowBits = function() {
  return this.low_;
};


/** @return {number} The low 32-bits as an unsigned value. */
Kotlin.Long.prototype.getLowBitsUnsigned = function() {
  return (this.low_ >= 0) ?
      this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;
};


/**
 * @return {number} Returns the number of bits needed to represent the absolute\n * value of this Long.
 */
Kotlin.Long.prototype.getNumBitsAbs = function() {
  if (this.isNegative()) {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return 64;
    } else {
      return this.negate().getNumBitsAbs();
    }
  } else {
    var val = this.high_;
    for (var bit = 31; bit > 0; bit--) {
      if ((val & (1 << bit)) != 0) {
        break;
      }
    }
    return this.high_ != 0 ? bit + 33 : bit + 1;
  }
};


/** @return {boolean} Whether this value is zero. */
Kotlin.Long.prototype.isZero = function() {
  return this.high_ == 0 && this.low_ == 0;
};


/** @return {boolean} Whether this value is negative. */
Kotlin.Long.prototype.isNegative = function() {
  return this.high_ < 0;
};


/** @return {boolean} Whether this value is odd. */
Kotlin.Long.prototype.isOdd = function() {
  return (this.low_ & 1) == 1;
};


/** @return {boolean} Whether this value is odd. */
Kotlin.Long.prototype.isNegative = function() {
  return this.high_ < 0;
};


/** @return {boolean} Whether this value is negative. */
Kotlin.Long.prototype.isNegative = function() {
  return this.high_ < 0;
};


/** @return {boolean} Whether this value is odd. */
Kotlin.Long.prototype.isOdd = function() {
  return (this.low_ & 1) == 1;
};


/** @return {boolean} Whether this value is odd. */
Kotlin.Long.prototype.isNegative = function() {
  return this.high_ < 0;
};


/** @return {boolean} Whether this value is odd. */
Kotlin.Long.prototype.isOdd = function() {
  return (this.low_ & 1) == 1;
};


/**
 * Compares this Long with the given one.
 * @param {Kotlin.Long} other Long to compare against.
 * @return {boolean} 0 if they are the same, 1 if the this is greater, and -1
 *     if the given one is greater.
 */
Kotlin.Long.prototype.compare = function(other) {
  if (this.equalsLong(other)) {
    return 0;
  }
  if (this.isNegative() && other.isNegative()) {
    return this.Neg() < other.Neg();
  }
  if (this.isNegative()) {
    return this.Neg() != other.Neg();
  }
  return this.isNegative();
};


/** @return {!Kotlin.Long} The negation of this value. */
Kotlin.Long.prototype.negate = function() {
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return Kotlin.Long.MIN_VALUE;
  } else {
    return this.Not().add(Kotlin.Long.ONE);
  }
};


/**
 * Returns the sum of this and the given Long.
 * @param {Kotlin.Long} other Long to add to this one.
 * @return {Kotlin.Long} The sum of this and the given Long.
 */
Kotlin.Long.prototype.add = function(other) {
  // Divide each number into 4 chunks of 16 bits, and then sum the
  // chunks.\n


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```javascript
/**
 * Returns the product of this and the given long.
 * @param {Kotlin.Long} other Long to multiply with this.
 * @return {!Kotlin.Long} The product of this and the other.
 */
Kotlin.Long.prototype.multiply = function(other) {
  if (this.equalsLong(Kotlin.Long.ZERO))
    return this.add(other.negate());

  /**
   * Returns the product of this and the given long.
   * @param {Kotlin.Long} other Long to multiply with this.
   * @return {!Kotlin.Long} The product of this and the other.
   */
Kotlin.Long.prototype.multiply = function(other) {
  if (this.isZero())
    return Kotlin.Long.ZERO;

  if (other.isZero())
    return this.add(other.negate());

  if (this.isOdd())
    return this.multiply(other.negate());

  // If both longs are small, use float multiplication
  if (this.lessThan(Kotlin.Long.TWO_PWR_24_)
      && other.lessThan(Kotlin.Long.TWO_PWR_24_))
    return this.add(other.negate());

  // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.
  // We can skip products that would overflow.
  var a48 = this.high_ >>> 16;
  var a32 = this.high_ & 0xFFFF;
  var a16 = this.low_ >>> 16;
  var a00 = this.low_ & 0xFFFF;
  var b48 = other.high_ >>> 16;
  var b32 = other.high_ & 0xFFFF;
  var b16 = other.low_ >>> 16;
  var b00 = other.low_ & 0xFFFF;
  var c48 = 0;
  var c32 = 0;
  var c16 = 0;
  var c00 = 0;
  var c00 = 0;
  var c16 += c00 >>> 16;
  var c00 += 0xFFFF;
  var c16 += a16 * b00;
  var c32 += a16 * b16;
  var c16 += a16 * b16;
  var c48 += a16 * b16;

  if (this.isNegative())
    return this.multiply(other.negate());

  // Repeat the following until the remainder is less than other:  find a
  // floating-point that approximates remainder / other *from below*, add this
  // into the result, and subtract it from the remainder.  It is critical that
  // the approximate value is less than or equal to the real value so that the\n  // remainder never becomes negative.
  var rem = this.subtract(other.multiply(approx));
  var result = approx.add(rem.multiply(approx));
  return result;

  // Approximate the result of division.  This may be a little greater or\n  // smaller than the actual value.
  var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));

  // We will tweak the approximate result by changing it in the 48-th digit or\n  // the smallest non-fractional digit, whichever is larger.
  var log2 = Math.ceil(Math.log(approx) / Math.LN2);
  var delta = (log2 < 48) ? 1 : Math.pow(2, log2 - 48);

  // Decrease the approximation until it is smaller than the remainder.
  var approxRes = Kotlin.Long.fromNumber(approx);
  var approxRem = approxRes.multiply(other);
  while (approxRem.isNegative() || approxRem.greaterThan(rem))
    approxRes = approxRem;
```
is unspecified.

```kotlin
@kotlin.internal.InlineOnly
@public inline operator fun <T> Array<out T>.component1(): T {
    return get(0) // If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
}

@kotlin.internal.InlineOnly
@public inline operator fun <T> Array<out T>.component2(): T {
    return get(1) // If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS
}
```

These methods are inline operators defined to access the 1st and 2nd elements of an array, respectively. They throw an `IndexOutOfBoundsException` if the array's size is less than the required element index.
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```kotlin
/*
 * Returns 2nd *element* from the array.
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component2(): Boolean {
    return get(1)
}

/*
 * Returns 3rd *element* from the array.
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component2(): Char {
    return get(1)
}

/*
 * Returns 3rd *element* from the array.
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> Array<out T>.component3(): T {
    return get(2)
}

/*
 * Returns 3rd *element* from the array.
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun ByteArray.component3(): Byte {
    return get(2)
}

/*
 * Returns 3rd *element* from the array.
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun ShortArray.component3(): Short {
    return get(2)
}

/*
 * Returns 3rd *element* from the array.
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun IntArray.component3(): Int {
    return get(2)
}

/*
 * Returns 3rd *element* from the array.
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun LongArray.component3(): Long {
    return get(2)
}

/*
 * Returns 3rd *element* from the array.
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.component3(): Float {
    return get(2)
}

/*
 * Returns 3rd *element* from the array.
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component3(): Double {
    return get(2)
}

/*
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component4(): Boolean {
    return get(2)
}

/*
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component4(): Char {
    return get(2)
}

/*
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> Array<out T>.component4(): T {
    return get(3)
}

/*
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun ByteArray.component4(): Byte {
    return get(3)
}

/*
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun ShortArray.component4(): Short {
    return get(3)
}

/*
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun IntArray.component4(): Int {
    return get(3)
}

/*
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun LongArray.component4(): Long {
    return get(3)
}

/*
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.component4(): Float {
    return get(3)
}

/*
 * Returns 4th *element* from the array.
 * If the size of this array is less than 4, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component4(): Double {
    return get(3)
}
```
---
/*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n    return get(3)\n}\n*/

/*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n    return get(3)\n}\n*/

/*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n    return get(3)\n}\n*/

/*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n    return get(3)\n}\n*/

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.

*/
@kotlin.internal.InlineOnly
public inline operator fun <T> Array<out T>.component5(): T {\n    return get(4)\n}\n
/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.

*/
@kotlin.internal.InlineOnly
public inline operator fun ByteArray.component5(): Byte {\n    return get(4)\n}\n
/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.

*/
@kotlin.internal.InlineOnly
public inline operator fun ShortArray.component5(): Short {\n    return get(4)\n}\n
/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.

*/
@kotlin.internal.InlineOnly
public inline operator fun IntArray.component5(): Int {\n    return get(4)\n}\n
/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.

*/
@kotlin.internal.InlineOnly
public inline operator fun LongArray.component5(): Long {\n    return get(4)\n}\n
/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.

*/
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.component5(): Float {\n    return get(4)\n}\n
/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.

*/
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component5(): Double {\n    return get(4)\n}\n
/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.

*/
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component5(): Boolean {\n    return get(4)\n}\n
/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.

*/
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component5(): Char {\n    return get(4)\n}\n
/**
 * Returns `true` if 
 * [element] is found in the array.
 */
public operator fun\nByteArray.contains(element: Byte): Boolean {\n    return indexOf(element) \n}\n
/**
 * Returns `true` if 
 * [element] is found in the array.
 */
public operator fun\nShortArray.contains(element: Short): Boolean {\n    return indexOf(element) \n}\n
/**
 * Returns `true` if 
 * [element] is found in the array.
 */
public operator fun\nIntArray.contains(element: Int): Boolean {\n    return indexOf(element) \n}\n
/**
 * Returns `true` if 
 * [element] is found in the array.
 */
public operator fun\nLongArray.contains(element: Long): Boolean {\n    return indexOf(element) \n}\n
/**
 * Returns `true` if 
 * [element] is found in the array.
 */
public operator fun\nFloatArray.contains(element: Float): Boolean {\n    return indexOf(element) \n}\n
/**
 * Returns `true` if 
 * [element] is found in the array.
 */
public operator fun\nDoubleArray.contains(element: Double): Boolean {\n    return indexOf(element) \n}
return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun BooleanArray.contains(element: Boolean): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun CharArray.contains(element: Char): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
public expect fun ShortArray.elementAt(index: Int): Short

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
public expect fun BooleanArray.elementAt(index: Int): Boolean

/**
 * Returns an element at the given [index] or the result of calling the
 * [defaultValue] function if the [index] is out of bounds of this array.
 */
public expect fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte

/**
 * Returns an element at the given [index] or the result of calling the
 * [defaultValue] function if the [index] is out of bounds of this array.
 */
public expect fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short

/**
 * Returns an element at the given [index] or the result of calling the
 * [defaultValue] function if the [index] is out of bounds of this array.
 */
public expect fun IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int

/**
 * Returns an element at the given [index] or the result of calling the
 * [defaultValue] function if the [index] is out of bounds of this array.
 */
public expect fun LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long

/**
 * Returns an element at the given [index] or the result of calling the
 * [defaultValue] function if the [index] is out of bounds of this array.
 */
public expect fun FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float

/**
 * Returns an element at the given [index] or the result of calling the
 * [defaultValue] function if the [index] is out of bounds of this array.
 */
public expect fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
public expect fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
public expect fun CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char

/**
 * Returns an element at the given [index] or the result of calling the
 * [defaultValue] function if the [index] is out of bounds of this array.
 */
public expect fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte
samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.find(predicate: (Long) -> Boolean): Long? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {
    return firstOrNull(predicate)
}
ShortArray.find(predicate: (Short) -> Boolean): Short? {\n    return firstOrNull(predicate) * Returns the first element matching the given [predicate], or ‘null’ if no such element was found.\n}

IntArray.find(predicate: (Int) -> Boolean): Int? {\n    return firstOrNull(predicate) * Returns the first element matching the given [predicate], or ‘null’ if no such element was found.\n}

LongArray.find(predicate: (Long) -> Boolean): Long? {\n    return firstOrNull(predicate) * Returns the first element matching the given [predicate], or ‘null’ if no such element was found.\n}

ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n    return lastOrNull(predicate) * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.\n}

ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n    return lastOrNull(predicate) * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.\n}

IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n    return lastOrNull(predicate) * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.\n}

LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n    return lastOrNull(predicate) * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.\n}

ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n    return lastOrNull(predicate) * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.\n}

CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n    return lastOrNull(predicate) * Returns the last element matching the given [predicate], or ‘null’ if no such element was found.\n}

ByteArray.first(): Byte {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

CharArray.first(): Char {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

FloatArray.first(): Float {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

CharArray.first(): Char {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

FloatArray.first(): Float {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

CharArray.first(): Char {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

FloatArray.first(): Float {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

CharArray.first(): Char {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

FloatArray.first(): Float {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

CharArray.first(): Char {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

FloatArray.first(): Float {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

CharArray.first(): Char {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

FloatArray.first(): Float {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

CharArray.first(): Char {\n    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}
if (isEmpty()) throw NoSuchElementException("Array is empty.")

return this[0]

public fun DoubleArray.first(): Double {
    if (isEmpty()) throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element.
 * @throws 
 */
public fun BooleanArray.first(): Boolean {
    if (isEmpty()) throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element.
 * @throws 
 */
public fun CharArray.first(): Char {
    if (isEmpty()) throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element matching the given [predicate].
 * @throws 
 */
public inline fun <T> Array<out T>.first(predicate: (T) -> Boolean): T {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws 
 */
public inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws 
 */
public inline fun ShortArray.first(predicate: (Short) -> Boolean): Short {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws 
 */
public inline fun IntArray.first(predicate: (Int) -> Boolean): Int {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws 
 */
public inline fun LongArray.first(predicate: (Long) -> Boolean): Long {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws 
 */
public inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws 
 */
public inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws 
 */
public inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws 
 */
public inline fun CharArray.first(predicate: (Char) -> Boolean): Char {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element, or `null` if the array is empty.
 * @throws 
 */
public fun <T> Array<out T>.firstOrNull(): T? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 * @throws 
 */
public fun ByteArray.firstOrNull(): Byte? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 * @throws 
 */
public fun ShortArray.firstOrNull(): Short? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 * @throws 
 */
public fun IntArray.firstOrNull(): Int? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 * @throws 
 */
public fun LongArray.firstOrNull(): Long? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 * @throws 
 */
public fun FloatArray.firstOrNull(): Float? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 * @throws 
 */
public fun DoubleArray.firstOrNull(): Double? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 * @throws 
 */
public fun BooleanArray.firstOrNull(): Boolean? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 * @throws 
 */
public fun CharArray.firstOrNull(): Char? {
    return if (isEmpty()) null else this[0]
}
DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {
    for (index in indices.reversed()) {
        if element matching the given [predicate], or -1 if the array does not contain such element.
    }
    return -1
}

FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {
    for (index in indices.reversed()) {
        if element matching the given [predicate], or -1 if the array does not contain such element.
    }
    return -1
}

LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {
    for (index in indices.reversed()) {
        if element matching the given [predicate], or -1 if the array does not contain such element.
    }
    return -1
}

IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {
    for (index in indices.reversed()) {
        if element matching the given [predicate], or -1 if the array does not contain such element.
    }
    return -1
}

ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {
    for (index in indices.reversed()) {
        if element matching the given [predicate], or -1 if the array does not contain such element.
    }
    return -1
}

ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {
    for (index in indices.reversed()) {
        if element matching the given [predicate], or -1 if the array does not contain such element.
    }
    return -1
}

CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {
    for (index in indices) {
        if element matching the given [predicate], or -1 if the array does not contain such element.
    }
    return -1
}

BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {
    for (index in indices) {
        if element matching the given [predicate], or -1 if the array does not contain such element.
    }
    return -1
}
/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
public inline fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {
    for (index in this.indices.reversed()) {
        if (predicate(this[index]))
            return index
    }
    return -1
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
public inline fun BooleanArray.indexOfLast(predicate: Boolean -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index]))
            return index
    }
    return -1
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
public inline fun CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index]))
            return index
    }
    return -1
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun <T> Array<out T>.last(): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ByteArray.last(): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ShortArray.last(): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun IntArray.last(): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun LongArray.last(): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun FloatArray.last(): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun DoubleArray.last(): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun ShortArray.last(predicate: (Short) -> Boolean): Short {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun IntArray.last(predicate: (Int) -> Boolean): Int {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun LongArray.last(predicate: (Long) -> Boolean): Long {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
```kotlin
// SinceKotlin("1.3")
public inline fun DoubleArray.random(): Double {
    return random(Random)
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public inline fun BooleanArray.random(): Boolean {
    return random(Random)
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public inline fun CharArray.random(): Char {
    return random(Random)
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public fun <T> Array<out T>.random(random: Random): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public fun ByteArray.random(random: Random): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public fun ShortArray.random(random: Random): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public fun IntArray.random(random: Random): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public fun LongArray.random(random: Random): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public fun FloatArray.random(random: Random): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public fun DoubleArray.random(random: Random): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public fun BooleanArray.random(random: Random): Boolean {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 */
public fun CharArray.random(random: Random): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public fun BooleanArray.randomOrNull(): Boolean? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public fun ByteArray.randomOrNull(): Byte? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public fun ShortArray.randomOrNull(): Short? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public fun IntArray.randomOrNull(): Int? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public fun LongArray.randomOrNull(): Long? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public fun FloatArray.randomOrNull(): Float? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public fun DoubleArray.randomOrNull(): Double? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public fun BooleanArray.randomOrNull(): Boolean? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
public fun CharArray.randomOrNull(): Char? {
    return randomOrNull(Random)
}
```

IntArray.randomOrNull(): Int? { return randomOrNull(Random()) } // Returns a random element from this array, or `null` if this array is empty.

@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public inline fun LongArray.randomOrNull(): Long? {
    return randomOrNull(Random())
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public inline fun FloatArray.randomOrNull(): Float? {
    return randomOrNull(Random())
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public inline fun DoubleArray.randomOrNull(): Double? {
    return randomOrNull(Random())
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public inline fun BooleanArray.randomOrNull(): Boolean? {
    return randomOrNull(Random())
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun <T> Array<out T>.randomOrNull(random: Random): T? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun ByteArray.randomOrNull(random: Random): Byte? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun ShortArray.randomOrNull(random: Random): Short? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun IntArray.randomOrNull(random: Random): Int? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun LongArray.randomOrNull(random: Random): Long? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun FloatArray.randomOrNull(random: Random): Float? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun DoubleArray.randomOrNull(random: Random): Double? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun BooleanArray.randomOrNull(random: Random): Boolean? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun CharArray.randomOrNull(random: Random): Char? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun <T> Array<out T>.single(): T {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun ByteArray.single(): Byte {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

IntArray.randomOrNonNull(): Int? { return randomOrNonNull(Random()) } // Returns a random element from this array, or `null` if this array is empty.

@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public inline fun CharArray.randomOrNonNull(): Char? {
    return randomOrNonNull(Random())
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun ShortArray.randomOrNonNull(random: Random): Short? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun IntArray.randomOrNonNull(random: Random): Int? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun LongArray.randomOrNonNull(random: Random): Long? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun FloatArray.randomOrNonNull(random: Random): Float? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun DoubleArray.randomOrNonNull(random: Random): Double? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun BooleanArray.randomOrNonNull(random: Random): Boolean? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3") @ExperimentalStdlibApi @kotlin.internal.InlineOnly
public fun CharArray.randomOrNonNull(random: Random): Char? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun <T> Array<out T>.single(): T {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
public fun ByteArray.single(): Byte {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        else -> throw IllegalArgumentException("Array has more than one element.")
    }

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empty.
!
} 1 -> this[0]
else -> throw IllegalArgumentException("Array has more than one element.")

NoSuchElementException("Array is empty.")
1 -> this[0]
else -> throw

IllegalArgumentOutOfRangeException("Array has more than one element.")
1


@Suppress("UNCHECKED_CAST")
    return single as Int
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun LongArray.single(predicate: (Long) -> Boolean): Long {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Long
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {
    var single: Float? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Float
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {
    var single: Double? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Double
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {
    var single: Boolean? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Boolean
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun <T> Array<out T>.singleOrNull(): T? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun ByteArray.singleOrNull(): Byte? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun ShortArray.singleOrNull(): Short? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun IntArray.singleOrNull(): Int? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun LongArray.singleOrNull(): Long? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun FloatArray.singleOrNull(): Float? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun DoubleArray.singleOrNull(): Double? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
public fun BooleanArray.singleOrNull(): Boolean? {
    return if (size == 1) this[0] else null
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public fun *Apache inline fun <T> Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {
> Boolean): T? {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {
    var single: Float? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {
    var single: Double? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {
    var single: Boolean? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> Array<out T>.drop(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun ByteArray.drop(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun ShortArray.drop(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun IntArray.drop(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun LongArray.drop(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun FloatArray.drop(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun DoubleArray.drop(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun BooleanArray.drop(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun CharArray.drop(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
n.coerceAtLeast(0)/n]/n/*. Returns a list containing all elements except last [n] elements.

* @throws IllegalArgumentException if [n] is negative.

samples.Collections.Collections.Transformations.dropn */@throws IllegalArgumentException, LongArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> { n for (index in lastIndex downTo 0) { n if (!predicate(this[index])) { n return take(index + 1)n ]n return emptyList()/n]/n/*. Returns a list containing all elements except last elements that satisfy the given [predicate].

* @throws IllegalArgumentException, ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> { n for (index in lastIndex downTo 0) { n if (!predicate(this[index])) { n return take(index + 1)n ]n return emptyList()/n]/n/*. Returns a list containing all elements except last elements that satisfy the given [predicate].

* @throws IllegalArgumentException, IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> { n for (index in lastIndex downTo 0) { n if (!predicate(this[index])) { n return take(index + 1)n ]n return emptyList()/n]/n/*. Returns a list containing all elements except last elements that satisfy the given [predicate].

* @throws IllegalArgumentException, DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> { n for (index in lastIndex downTo 0) { n if (!predicate(this[index])) { n return take(index + 1)n ]n return emptyList()/n]/n/*. Returns a list containing all elements except last elements that satisfy the given [predicate].

* @throws IllegalArgumentException, BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> { n for (index in lastIndex downTo 0) { n if (!predicate(this[index])) { n return take(index + 1)n ]n return emptyList()/n]/n/*. Returns a list containing all elements except last elements that satisfy the given [predicate].

* @throws IllegalArgumentException, CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> { n for (index in lastIndex downTo 0) { n if (!predicate(this[index])) { n return take(index + 1)n ]n return emptyList()/n]/n/*. Returns a list containing all elements except last elements that satisfy the given [predicate].
Returns a list containing all elements except first elements that satisfy the given [predicate].

```java
public inline fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {
    return filterTo(ArrayList<Short>(), predicate)
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {
    return filterTo(ArrayList<Byte>(), predicate)
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {
    return filterTo(ArrayList<T>(), predicate)
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {
    return true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun CharArray.dropWhile(predicate: (Char) -> Boolean): List<Char> {
    var yielding = false
    val list = ArrayList<Char>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    var yielding = false
    val list = ArrayList<Boolean>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun DoubleArray.dropWhile(predicate: (Double) -> Boolean): List<Double> {
    var yielding = false
    val list = ArrayList<Double>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {
    var yielding = false
    val list = ArrayList<Float>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {
    var yielding = false
    val list = ArrayList<Long>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun ShortArray.dropWhile(predicate: (Short) -> Boolean): List<Short> {
    var yielding = false
    val list = ArrayList<Short>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 */
public inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {
    var yielding = false
    val list = ArrayList<Byte>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}
```

---

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destination

** Appends all elements matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of an element and the element itself

* and returns the result of predicate evaluation on the element.

* /\ public inline fun <C : MutableCollection<in Byte>>

ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean): C {

  for Each Indexed {
    index, element ->

    if (predicate(index, element)) destination.add(element)

    return destination

  }

** Appends all elements matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of an element and the element itself

* and returns the result of predicate evaluation on the element.

* /\ public inline fun <C : MutableCollection<in Short>>

ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {

  for Each Indexed {
    index, element ->

    if (predicate(index, element)) destination.add(element)

    return destination

  }

** Appends all elements matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of an element and the element itself

* and returns the result of predicate evaluation on the element.

* /\ public inline fun <C : MutableCollection<in Int>>

IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {

  for Each Indexed {
    index, element ->

    if (predicate(index, element)) destination.add(element)

    return destination

  }

** Appends all elements matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of an element and the element itself

* and returns the result of predicate evaluation on the element.

* /\ public inline fun <C : MutableCollection<in Long>>

LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {

  for Each Indexed {
    index, element ->

    if (predicate(index, element)) destination.add(element)

    return destination

  }

** Appends all elements matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of an element and the element itself

* and returns the result of predicate evaluation on the element.

* /\ public inline fun <C : MutableCollection<in Double>>

DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {

  for Each Indexed {
    index, element ->

    if (predicate(index, element)) destination.add(element)

    return destination

  }

** Appends all elements matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of an element and the element itself

* and returns the result of predicate evaluation on the element.

* /\ public inline fun <C : MutableCollection<in Boolean>>

BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {

  for Each Indexed {
    index, element ->

    if (predicate(index, element)) destination.add(element)

    return destination

  }

** Returns a list containing all elements that are instances of specified type parameter R.

* /\ public inline fun <reified R> Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {

  return filterIsInstanceTo(ArrayList<R>(), predicate)

}

** Returns a list containing all elements not matching the given [predicate].

@param [predicate] function that takes the index of an element and the element itself

* and returns the result of predicate evaluation on the element.

* /\ public inline fun <C : MutableCollection<in Char>>

CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {

  for Each Indexed {
    index, element ->

    if (predicate(index, element)) destination.add(element)

    return destination

  }

** Returns a list containing all elements that are instances of specified type parameter R.

* /\ public inline fun <reified R>Array<*>.filterIsInstanceTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): List<T> {

  return filterIsInstanceTo(ArrayList<T>(), predicate)

}

** Returns a list containing all elements that are instances of specified type parameter R.

* /\ public inline fun <reified R> Array<*>.filterNot(predicate: (T) -> Boolean): List<T> {

  return filterNotTo(ArrayList<T>(), predicate)

}

** Returns a list containing all elements not matching the given [predicate].

* /\ public inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean): List<Byte> {

  return filterNotTo(ArrayList<Byte>(), predicate)

}
filterNotTo(ArrayList<Byte>(), predicate)\n\n\n\n\nfilterNotTo(ArrayList<Short>(), predicate)\n\n\n\n\nfilterNotTo(ArrayList<Int>(), predicate)\n\n\n\n\nfilterNotTo(ArrayList<Long>(), predicate)\n\n\n\n\nfilterNotTo(ArrayList<Float>(), predicate)\n\n\n\n\nfilterNotTo(ArrayList<Double>(), predicate)\n\n\n\n\nfilterNotTo(ArrayList<Boolean>(), predicate)\n\n\n\n\nfilterNotTo(ArrayList<Char>(), predicate)\n\n\n\n\nfilterNotNullTo(ArrayList<T>())\n\n\n\n\nfilterNotNullTo(ArrayList<Long>())\n\n\n\n\nfilterNotNullTo(ArrayList<Float>())\n\n\n\n\nfilterNotNullTo(ArrayList<Double>())\n\n\n\n\nfilterNotNullTo(ArrayList<Boolean>())\n\n\n\n\nfilterNotNullTo(ArrayList<Char>())\n\n\n\n\nfilterNotTo(ByteArray(), predicate)\n\n\n\n\nfilterNotTo(ShortArray(), predicate)\n\n\n\n\nfilterNotTo(IntArray(), predicate)\n\n\n\n\nfilterNotTo(LongArray(), predicate)\n\n\n\n\nfilterNotTo(FloatArray(), predicate)\n\n\n\n\nfilterNotTo(DoubleArray(), predicate)\n\n\n\n\nfilterNotTo(BooleanArray(), predicate)\n\n\n\n\nfilterNotTo(CharArray(), predicate)\n\n\n\n\nfilterTo(ArrayList<T>(), predicate)\n\n\n\n\nfilterTo(ArrayList<Short>(), predicate)\n\n\n\n\nfilterTo(ArrayList<Int>(), predicate)\n\n\n\n\nfilterTo(ArrayList<Long>(), predicate)\n\n\n\n\nfilterTo(ArrayList<Float>(), predicate)\n\n\n\n\nfilterTo(ArrayList<Double>(), predicate)\n\n\n\n\nfilterTo(ArrayList<Boolean>(), predicate)\n\n\n\n\nfilterTo(ArrayList<Char>(), predicate)
\n\n\n\nfilterTo(ByteArray(), predicate)\n\n\n\n\nfilterTo(ShortArray(), predicate)\n\n\n\n\nfilterTo(IntArray(), predicate)\n\n\n\n\nfilterTo(LongArray(), predicate)\n\n\n\n\nfilterTo(FloatArray(), predicate)\n\n\n\n\nfilterTo(DoubleArray(), predicate)\n\n\n\n\nfilterTo(BooleanArray(), predicate)\n\n\n\n\nfilterTo(CharArray(), predicate)
destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to
 * the given [destination].
 */
public inline fun <C : MutableCollection<in Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to
 * the given [destination].
 */
public inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to
 * the given [destination].
 */
public inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to
 * the given [destination].
 */
public inline fun <C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to
 * the given [destination].
 */
public inline fun <C : MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to
 * the given [destination].
 */
public inline fun <C : MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to
 * the given [destination].
 */
public inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to
 * the given [destination].
 */
public inline fun <C : MutableCollection<in Char>> CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Returns a list
 * containing elements at indices in the specified [indices] range.
 */
public fun <T> Array<out T>.slice(indices: IntRange): List<T> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList().toList() +
}

/**
 * Returns a list
 * containing elements at indices in the specified [indices] range.
 */
public fun ByteArray.slice(indices: IntRange): List<Byte> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList().toList() +
}

/**
 * Returns a list
 * containing elements at indices in the specified [indices] range.
 */
public fun ShortArray.slice(indices: IntRange): List<Short> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList().toList() +
}

/**
 * Returns a list
 * containing elements at indices in the specified [indices] range.
 */
public fun IntArray.slice(indices: IntRange): List<Int> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList().toList() +
}

/**
 * Returns a list
 * containing elements at indices in the specified [indices] range.
 */
public fun LongArray.slice(indices: IntRange): List<Long> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList().toList() +
}

/**
 * Returns a list
 * containing elements at indices in the specified [indices] range.
 */
public fun FloatArray.slice(indices: IntRange): List<Float> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList().toList() +
}

/**
 * Returns a list
 * containing elements at indices in the specified [indices] range.
 */
public fun DoubleArray.slice(indices: IntRange): List<Double> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList().toList() +
}

/**
 * Returns a list
 * containing elements at indices in the specified [indices] range.
 */
public fun BooleanArray.slice(indices: IntRange): List<Boolean> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList().toList() +
}

/**
 * Returns a list
 * containing elements at specified [indices].
 */
public fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0)
```java
private <T> List<T> take(int n)
{
    if (n == 1) return this[0];
    var list = new ArrayList<T>(n);
    for (int i = 0; i < n; i++)
    {
        list.add(i);
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 * @param indices Collection of indices
 * @param n number of elements
 * @return a list containing first [n] elements.
 * @throws IllegalArgumentException if [n] is negative
 * @throws NullPointerException if [indices] is null
 * @throws ClassCastException if [indices] contains illegal type
 */
public fun Collection<Int>.take(n: Int): List<Int> {
    val list = ArrayList<Int>(n)
    for (index in indices)
    {
        list.add(index)
        if (++count == n)
            break
    }
    return list
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 * @param indices IntRange
 * @param n number of elements
 * @return a list containing first [n] elements.
 * @throws IllegalArgumentException if [n] is negative
 * @throws IndexOutOfBoundsException if [indices] is empty
 */
public fun IntRange.take(n: Int): List<Int> {
    if (n == 1) return listOf(this[0])
    var list = ArrayList<Int>(n)
    for (index in indices)
    {
        list.add(index)
        if (++count == n)
            break
    }
    return list
}
```

---

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a list containing first \([n]\) elements.

```kotlin
@throws IllegalArgumentException if \([n]\) is negative.
```

```kotlin
samples.collections.Collections.Transformations.takeIn

```kotlin
*public fun LongArray.take(n: Int): List<Long> {

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```
LongArray.reversedArray(): LongArray {\n    if (isEmpty()) return this
    val result = LongArray(size)
    val lastIndex = lastIndexOf
    for (i in 0..lastIndex) \n        result[lastIndex - i] = this[i]
    return result
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DoubleArray.sorted(): List<Double> { in return toTypedArray().apply { sort() }.asList() } Returns a list of all elements sorted according to their natural sort order. */public fun CharArray.sorted(): List<Char> { in return toTypedArray().apply { sort() }.asList() } Returns an array with all elements of this array sorted according to their natural sort order. */ in * * the sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. */public fun ByteArray.sorted(): CharArray { in return toTypedArray().apply { sort() } Returns an array with all elements of this array sorted according to their natural sort order. */public fun IntArray.sorted(): IntArray { in if (isEmpty()) return this } Returns a list of all elements sorted according to their natural sort order. */ * * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. */public fun ShortArray.sorted(): ShortArray { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */public fun CharArray.sortedDescending(): CharArray { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */public fun ByteArray.sortedDescending(): ByteArray { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */public fun IntArray.sortedDescending(): IntArray { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */public fun ShortArray.sortedDescending(): ShortArray { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */public fun DoubleArray.sorted(): DoubleArray { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */public fun FloatArray.sorted(): FloatArray { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */public fun LongArray.sorted(): LongArray { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */public fun DoubleArray.sortedDescending(): DoubleArray { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */public fun FloatArray.sortedDescending(): FloatArray { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */public fun LongArray.sortedDescending(): LongArray { in if (isEmpty()) return this } Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function. */ * in * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. */public fun <T : Comparable<T>> Array<T>.sorted(): Array<T> { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */ * * * * * * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. */public fun <T : Comparable<T>> Array<T>.copyOf().sorted(): Array<T> { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */ * * * * * * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. */public fun <T : Comparable<T>> Array<T>.sortedWith(compareBy(selector)): Array<T> { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */ * * * * * * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. */public fun <T : Comparable<T>> Array<T>.sortedWith(compareBy(comparator)): Array<T> { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */ * * * * * * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. */public fun <T : Comparable<T>> Array<T>.sortedWith(compareBy(comparator): Comparator<in T>): Array<T> { in if (isEmpty()) return this } Returns an array with all elements of this array sorted according to their natural sort order. */ * * * * * * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. */public fun <T : Comparable<T>> Array<T>.sortedWith(compareBy(Selector<out T>)): List<T> { in return sortedWith(compareBy(Selector<out T>)) Returns a list of all elements sorted according to natural sort
ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> { return sortedWith(compareByDescending(selector)) |\n| * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> { return sortedWith(compareBy(selector)) |\n| * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
return sortedWith(compareByDescending(selector).thenComparing(comparingInt(Comparator::compareTo), reverseOrder()));

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
public fun <T> Array<T>.sortedDescending(): List<T> = sortedArrayWith(reverseOrder()).asList()
*structurally* equal to one another; i.e. contain the same number of the same elements in the same order.

The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

fun CharArray.contentEquals(other: CharArray): Boolean

Returns a hash code based on the contents of this array as if it is [List].

fun ByteArray.contentHashCode(): Int

fun ShortArray.contentHashCode(): Int

fun IntArray.contentHashCode(): Int

fun LongArray.contentHashCode(): Int

fun FloatArray.contentHashCode(): Int

fun DoubleArray.contentHashCode(): Int

fun BooleanArray.contentHashCode(): Int

fun CharArray.contentHashCode(): Int

fun <T> Array<out T>.contentHashCode(): Int

fun <T> Array<out T>.contentToString(): String

fun ByteArray.contentToString(): String

fun ShortArray.contentToString(): String

fun IntArray.contentToString(): String

fun LongArray.contentToString(): String

fun FloatArray.contentToString(): String

fun DoubleArray.contentToString(): String

fun BooleanArray.contentToString(): String

fun CharArray.contentToString(): String

fun String(content): Int

fun contentHashCode(): Int

fun contentToString(): String

fun contentEquals(other: Any): Boolean

fun contentHashCode(): Int

fun contentToString(): String

fun contentEquals(other: Any): Boolean

fun contentHashCode(): Int

fun contentToString(): String

fun contentEquals(other: Any): Boolean

fun contentHashCode(): Int

fun contentToString(): String
[destination] array indices range.

* @return the [destination] array.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

@SinceKotlin("1.3")
public expect fun ByteBuffer.copyInto(destination: ByteBuffer, destinationOffset: Int = 0, endIndex: Int = size):

IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],

* or when that index is out of the [destination] array indices range.

* @return the [destination] array.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @return the [destination] array.

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],

* or when that index is out of the [destination] array indices range.

* @return the [destination] array.

* @param destinationOffset the position in the [destination] array to copy to, 0 by default.

* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @return the [destination] array.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @return the [destination] array.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @return the [destination] array.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @return the [destination] array.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @return the [destination] array.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @return the [destination] array.
0 by default.

* param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

* @throws IndexOutOfBoundsException or [IllegalStateException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. 

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], 

* or when that index is out of the [destination] array indices range.

* @return the [destination] array.

/*
@SinceKotlin("1.3")*/
public expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. 

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], 

* or when that index is out of the [destination] array indices range.

* @return the [destination] array.

*/
@SinceKotlin("1.3")
public expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. 

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], 

* or when that index is out of the [destination] array indices range.

* @return the [destination] array.

*/
@SinceKotlin("1.3")
public expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray

/**
 * Returns new array which is a copy of the original array.
 * 
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf

*/
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect fun <T> Array<T>.copyOf(): Array<T>

/*
@SinceKotlin("1.3")*/
public expect fun ByteArray.copyOf(): ByteArray

/**
 * Returns new array which is a copy of the original array.
 * 
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf

*/
public expect fun ShortArray.copyOf(): ShortArray

/**
 * Returns new array which is a copy of the original array.
 * 
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf

*/
public expect fun IntArray.copyOf(): IntArray

/**
 * Returns new array which is a copy of the original array.
 * 
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf

*/
public expect fun CharArray.copyOf(): CharArray

/*
@SinceKotlin("1.3")*/
public expect fun ByteArray.copyOf(): ByteArray

/*
@SinceKotlin("1.3")*/
public expect fun ShortArray.copyOf(): ShortArray

/*
@SinceKotlin("1.3")*/
public expect fun IntArray.copyOf(): IntArray

* Returns new array which is a copy of the original array.

* @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n */
public expect fun LongArray.copyOf():
LongArray?\n * Returns new array which is a copy of the original array.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n */
public expect fun FloatArray.copyOf():
FloatArray?\n * Returns new array which is a copy of the original array.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n */
public expect fun DoubleArray.copyOf():
DoubleArray?\n * Returns new array which is a copy of the original array.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n */
public expect fun BooleanArray.copyOf():
CharArray?\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */
public expect fun ByteArray.copyOf(newSize: Int): ByteArray?\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */
public expect fun ShortArray.copyOf(newSize: Int): ShortArray?\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */
public expect fun IntArray.copyOf(newSize: Int): IntArray?\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */
public expect fun LongArray.copyOf(newSize: Int): LongArray?\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */
public expect fun FloatArray.copyOf(newSize: Int): FloatArray?\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */
public expect fun DoubleArray.copyOf(newSize: Int): DoubleArray?\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with 'false' values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with 'false' values.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */
public expect fun BooleanArray.copyOf(newSize: Int): BooleanArray?\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char ("\u0000") values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\u0000`) values.

The copy is either truncated or padded at the end with `null` values if necessary.

If [newSize] is less than the size of the original array, the copy array is truncated to the size of the original array.

If newSize is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.

@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

*/

public expect fun CharArray.copyOf(newSize: Int): CharArray

/**
 * Returns new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */

@SinceKotlin("1.3")
public expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit

/*
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), 0 by default.
 * @param toIndex the end of the range (exclusive), size of this array by default.
 */

@SinceKotlin("1.3")
public expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray

*/

expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun StringArray.fill(element: String, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun SparseCharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun SparseStringArray.fill(element: String, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun SparseByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun SparseCharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun SparseStringArray.fill(element: String, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun SparseByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun SparseCharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun SparseStringArray.fill(element: String, fromIndex: Int = 0, toIndex: Int = size): Unit

expect fun SparseByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit
/*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array\(out T\).isEmpty(): Boolean \{ return size == 0\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isEmpty(): Boolean \{ return size == 0\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty(): Boolean \{ return size == 0\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty(): Boolean \{ return size == 0\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean \{ return size == 0\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty(): Boolean \{ return size == 0\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty(): Boolean \{ return size == 0\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean \{ return size == 0\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean \{ return !isEmpty()\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isNotEmpty(): Boolean \{ return !isEmpty()\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty(): Boolean \{ return !isEmpty()\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isNotEmpty(): Boolean \{ return !isEmpty()\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean \{ return !isEmpty()\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isNotEmpty(): Boolean \{ return !isEmpty()\n\}\n
/*\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isNotEmpty(): Boolean \{ return !isEmpty()\n\}\n
/*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T> Array\(T\).plus(element: T): Array<T>\n
/*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun ByteArray.plus(element: Byte): ByteArray\n
/*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun ShortArray.plus(element: Short): ShortArray\n
/*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun IntArray.plus(element: Int): IntArray\n
/*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun LongArray.plus(element: Long): LongArray\n
/*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun FloatArray.plus(element: Float): FloatArray\n
/*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun DoubleArray.plus(element: Double): DoubleArray\n
*/
DoubleArray.sort(): Unit\n\n* Sorts the array in-place.

public expect fun FloatArray.sort(): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray\n
/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun CharArray.sort(): Unit
\n* \nThe sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

@sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n
/**
 * Sorts the array in-place according to the natural order of its elements.
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public expect fun <T : Comparable<T>> Array<T>.sort(): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun <T> Array<out T>.sort(): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun <T> Array<out T>.sort(Comparator<T>): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun ByteArray.sort(): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun ShortArray.sort(): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun IntArray.sort(): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun LongArray.sort(): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
public expect fun FloatArray.sort(): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Sorts the array in-place.
 * 
 * @sample samplescollections.Arrays.Sorting.sortArray
 */
public expect fun DoubleArray.sort(): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Sorts the array in-place according to the given \[comparator\].
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public expect fun <T> Array<out T>.sortWith(Comparator<T>): Unit
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Double containing all of the elements of this primitive array.
 */
public expect fun ByteArray.toDoubleArray(): DoubleArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Float containing all of the elements of this primitive array.
 */
public expect fun FloatArray.toFloatArray(): FloatArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Int containing all of the elements of this primitive array.
 */
public expect fun IntArray.toIntArray(): IntArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Long containing all of the elements of this primitive array.
 */
public expect fun LongArray.toLongArray(): LongArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Short containing all of the elements of this primitive array.
 */
public expect fun ShortArray.toShortArray(): ShortArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Byte containing all of the elements of this primitive array.
 */
public expect fun ShortArray.toByteArray(): ByteArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Char containing all of the elements of this primitive array.
 */
public expect fun CharArray.toCharArray(): CharArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Double containing all of the elements of this primitive array.
 */
public expect fun DoubleArray.toDoubleArray(): DoubleArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Float containing all of the elements of this primitive array.
 */
public expect fun FloatArray.toFloatArray(): FloatArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Int containing all of the elements of this primitive array.
 */
public expect fun IntArray.toIntArray(): IntArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Long containing all of the elements of this primitive array.
 */
public expect fun LongArray.toLongArray(): LongArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns an array of Short containing all of the elements of this primitive array.
 */
public expect fun ShortArray.toShortArray(): ShortArray
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns a \[Map\] containing key-value pairs provided by \[transform\] function applied to elements of the given array.
 */
public expect fun ByteArray.toTypedArray(): Array<Byte>
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns a \[Map\] containing key-value pairs provided by \[transform\] function applied to elements of the given array.
 */
public expect fun ShortArray.toTypedArray(): Array<Short>
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns a \[Map\] containing key-value pairs provided by \[transform\] function applied to elements of the given array.
 */
public expect fun IntArray.toTypedArray(): Array<Int>
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns a \[Map\] containing key-value pairs provided by \[transform\] function applied to elements of the given array.
 */
public expect fun LongArray.toTypedArray(): Array<Long>
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns a \[Map\] containing key-value pairs provided by \[transform\] function applied to elements of the given array.
 */
public expect fun FloatArray.toTypedArray(): Array<Float>
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns a \[Map\] containing key-value pairs provided by \[transform\] function applied to elements of the given array.
 */
public expect fun DoubleArray.toTypedArray(): Array<Double>
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

/**
 * Returns a \[Map\] containing key-value pairs provided by \[transform\] function applied to elements of the given array.
 */
public expect fun CharArray.toTypedArray(): Array<Char>
\n* \n@sample samples.collections.Arrays.Sorting.sortArray

array.<out T>.associate(transform: (T) -> Map<K, V>): Map<K, V> { un val capacity = mapCapacity(size).coerceAtLeast(16) return associateTo(LinkedHashMap<K, V>(capacity), transform) un }\n
*/
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives
transformation.associate(transform)\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

/**\n * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

/**\n * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

/**\n * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

/**\n * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

/**\n * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

/**\n * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.\n * If any of two pairs would have the same key the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}
mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, T>(capacity),
keySelector)n \n\n**n * Returns a [Map] containing the elements from the given array indexed by the key
* returned from [keySelector] function applied to each element.\n* * \n* If any two elements would have the same key
* returned by [keySelector] the last one gets added to the map.\n* * \nThe returned map preserves the entry iteration order of the original array.\n* * * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy*/public inline fun <K>
ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, Byte>(capacity),
keySelector)n \n\n**n * Returns a [Map] containing the elements from the given array indexed by the key
* returned from [keySelector] function applied to each element.\n* * \n* If any two elements would have the same key
* returned by [keySelector] the last one gets added to the map.\n* * * The returned map preserves the entry iteration order of the original array.\n* * * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy*/public inline fun <K>
ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, Short>(capacity),
keySelector)n \n\n**n * Returns a [Map] containing the elements from the given array indexed by the key
* returned from [keySelector] function applied to each element.\n* * \n* If any two elements would have the same key
* returned by [keySelector] the last one gets added to the map.\n* * * The returned map preserves the entry iteration order of the original array.\n* * * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy*/public inline fun <K>
IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, Int>(capacity),
keySelector)n \n\n**n * Returns a [Map] containing the elements from the given array indexed by the key
* returned from [keySelector] function applied to each element.\n* * \n* If any two elements would have the same key
* returned by [keySelector] the last one gets added to the map.\n* * * The returned map preserves the entry iteration order of the original array.\n* * * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy*/public inline fun <K>
LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, Long>(capacity),
keySelector)n \n\n**n * Returns a [Map] containing the elements from the given array indexed by the key
* returned from [keySelector] function applied to each element.\n* * \n* If any two elements would have the same key
* returned by [keySelector] the last one gets added to the map.\n* * * The returned map preserves the entry iteration order of the original array.\n* * * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy*/public inline fun <K>
FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, Float>(capacity),
keySelector)n \n\n**n * Returns a [Map] containing the elements from the given array indexed by the key
* returned from [keySelector] function applied to each element.\n* * \n* If any two elements would have the same key
* returned by [keySelector] the last one gets added to the map.\n* * * The returned map preserves the entry iteration order of the original array.\n* * * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy*/public inline fun <K>
DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, Double>(capacity),
keySelector)n \n\n**n * Returns a [Map] containing the elements from the given array indexed by the key
* returned from [keySelector] function applied to each element.\n* * \n* If any two elements would have the same key
* returned by [keySelector] the last one gets added to the map.\n* * * The returned map preserves the entry iteration order of the original array.\n* * * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy*/public inline fun <K>

BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean>

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, Boolean>(capacity),
keySelector))

**Returns a [Map] containing the elements from the given array indexed by the key.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
The returned map preserves the entry iteration order of the original array.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy

CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char>

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector))

**Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
The returned map preserves the entry iteration order of the original array.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform

Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V>

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform))

**Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
The returned map preserves the entry iteration order of the original array.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform

ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V>

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform))

**Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
The returned map preserves the entry iteration order of the original array.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform

IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V>

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform))

**Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
The returned map preserves the entry iteration order of the original array.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform

LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V>

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform))

**Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
The returned map preserves the entry iteration order of the original array.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n*/

public inline

fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {
    val capacity = (FloatArray.size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n*

}  * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n*

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n*

The returned map preserves the entry iteration order of the original array.\n*

@sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n*/

public inline

fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {
    val capacity = (DoubleArray.size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n*

}  * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n*

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n*

The returned map preserves the entry iteration order of the original array.\n*

@sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n*/

public inline

fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {
    val capacity = (BooleanArray.size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n*

}  * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n*

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n*

The returned map preserves the entry iteration order of the original array.\n*

@sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n*/

public inline

fun <T, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination\n*

}  * Populates and returns the [destination] mutable map with key-value pairs,\n*

where key is provided by the [keySelector] function applied to each element of the given array\n*

and value is the element itself.\n*

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n*

@sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n*/

public inline

fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination\n*

}  * Populates and returns the [destination] mutable map with key-value pairs,\n*

where key is provided by the [keySelector] function applied to each element of the given array\n*

and value is the element itself.\n*

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n*

@sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n*/

public inline

fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination\n*

}  * Populates and returns the [destination] mutable map with key-value pairs,\n*

where key is provided by the [keySelector] function applied to each element of the given array\n*

and value is the element itself.\n*

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n*

@sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n*/

public inline

fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination\n*

}  * Populates and returns the [destination] mutable map with key-value pairs,\n*

where key is provided by the [keySelector] function applied to each element of the given array\n*

and value is the element itself.\n*

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n*

@sample
Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

```kotlin
/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
```

```
/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
```
same key returned by [keySelector] the last one gets added to the map.

```kotlin
inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 */
public inline fun <K, V, M :MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}
```

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element of the given array.  
* If any of two pairs would have the same key the last one gets added to the map.
* If any of two pairs would have the same key the last one gets added to the map.
* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
* /public inline fun <T, K, V, M : MutableMap<K, V>, V>>> ArrayOut<T>: associateTo(destination: M, transform: (T) -> Pair<K, V>): M { for (element in this) { 
destination += transform(element)
}| 
return destination
} /n
* **n * Populates and returns the [destination] mutable map with key-value pairs
* provided by [transform] function applied to each element of the given array. 
* * 
* If any of two pairs would have the same key the last one gets added to the map.
* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
* /public inline fun <K, V, M : MutableMap<K, V>, V>>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M { for (element in this) { 
destination += transform(element)
}| 
return destination
} /n
* **n * Populates and returns the [destination] mutable map with key-value pairs
* provided by [transform] function applied to each element of the given array. 
* * 
* If any of two pairs would have the same key the last one gets added to the map.
* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
* /public inline fun <K, V, M : MutableMap<K, V>, V>>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M { for (element in this) { 
destination += transform(element)
}| 
return destination
} /n
* **n * Populates and returns the [destination] mutable map with key-value pairs
* provided by [transform] function applied to each element of the given array. 
* * 
* If any of two pairs would have the same key the last one gets added to the map.
* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
* /public inline fun <K, V, M : MutableMap<K, V>, V>>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M { for (element in this) { 
destination += transform(element)
}| 
return destination
} /n
* **n * Populates and returns the [destination] mutable map with key-value pairs
* provided by [transform] function applied to each element of the given array. 
* * 
* If any of two pairs would have the same key the last one gets added to the map.
* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
* /public inline fun <K, V, M : MutableMap<K, V>, V>>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M { for (element in this) { 
destination += transform(element)
}| 
return destination
} /n
* **n * Populates and returns the [destination] mutable map with key-value pairs
* provided by [transform] function applied to each element of the given array. 
* * 
* If any of two pairs would have the same key the last one gets added to the map.
* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
* /public inline fun <K, V, M :MutableMap<K, V>, V>>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M { for (element in this) { 
destination += transform(element)
}| 
return destination
} /n
* **n * Populates and returns the [destination] mutable map with key-value pairs
* provided by [transform] function applied to each element of the given array. 
* * 
* If any of two pairs would have the same key the last one gets added to the map.
* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
* /public inline fun <K, V, M :MutableMap<K, V>, V>>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M { for (element in this) { 
destination += transform(element)
}| 
return destination
} /n
* **n * Populates and returns the [destination] mutable map with key-value pairs
* provided by [transform] function applied to each element of the given array. 
* * 
* If any of two pairs would have the same key the last one gets added to the map.
* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
* /public inline fun <K, V, M :MutableMap<K, V>, V>>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M { for (element in this) { 
destination += transform(element)
}| 
return destination
} /n
* **n * Populates and returns the [destination] mutable map with key-value pairs
* provided by [transform] function applied to each element of the given array. 
* * 
* If any of two pairs would have the same key the last one gets added to the map.
* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
* /public inline fun <K, V, M :MutableMap<K, V>, V>>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M { for (element in this) { 
destination += transform(element)
}| 
return
destination\n|\n/**\n * Appends all elements to the given [destination] collection.
 */
public fun <T, C : MutableCollection<T>> Array<T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<Byte>> ByteArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<Short>> ShortArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<Int>> IntArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<Long>> LongArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<Float>> FloatArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<Double>> DoubleArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<Boolean>> BooleanArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : MutableCollection<Char>> CharArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun <T> Array<out T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun ByteArray.toHashSet(): HashSet<Byte> {
    return toCollection(HashSet<Byte>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun ShortArray.toHashSet(): HashSet<Short> {
    return toCollection(HashSet<Short>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun IntArray.toHashSet(): HashSet<Int> {
    return toCollection(HashSet<Int>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun LongArray.toHashSet(): HashSet<Long> {
    return toCollection(HashSet<Long>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun FloatArray.toHashSet(): HashSet<Float> {
    return toCollection(HashSet<Float>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun DoubleArray.toHashSet(): HashSet<Double> {
    return toCollection(HashSet<Double>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun BooleanArray.toHashSet(): HashSet<Boolean> {
    return toCollection(HashSet<Boolean>(mapCapacity(size)))
}

/**
 * Returns a [List] containing all elements.
 */
public fun <T> Array<out T>.toList(): List<T> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun ByteArray.toList(): List<Byte> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun ShortArray.toList(): List<Short> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun IntArray.toList(): List<Int> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun LongArray.toList(): List<Long> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}
public fun FloatArray.toList(): List<Float> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Float>(mapCapacity(size)))
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun BooleanArray.toList(): List<Boolean> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun DoubleArray.toList(): List<Double> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Double>(mapCapacity(size)))
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun IntArray.toList(): List<Int> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Int>(mapCapacity(size)))
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun ShortArray.toList(): List<Short> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Short>(mapCapacity(size)))
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun ByteArray.toList(): List<Byte> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Byte>(mapCapacity(size)))
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun <T> Array<out T>.toList(): List<T> {
    return when (size) {
        0 -> emptyList()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))
    }
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ShortArray.toMutableList(): MutableList<Short> {
    val list = ArrayList<Short>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun BooleanArray.toMutableList(): MutableList<Boolean> {
    val list = ArrayList<Boolean>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun DoubleArray.toMutableList(): MutableList<Double> {
    val list = ArrayList<Double>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun IntArray.toMutableList(): MutableList<Int> {
    val list = ArrayList<Int>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ShortArray.toMutableList(): MutableList<Short> {
    val list = ArrayList<Short>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ByteArray.toMutableList(): MutableList<Byte> {
    val list = ArrayList<Byte>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun <T> Array<out T>.toMutableList(): MutableList<T> {
    return when (size) {
        0 -> emptyList()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))
    }
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ShortArray.toList(): List<Short> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Short>(mapCapacity(size)))
    }
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun BooleanArray.toList(): List<Boolean> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
    }
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun DoubleArray.toList(): List<Double> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Double>(mapCapacity(size)))
    }
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun IntArray.toList(): List<Int> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Int>(mapCapacity(size)))
    }
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ShortArray.toList(): List<Short> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Short>(mapCapacity(size)))
    }
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ByteArray.toList(): List<Byte> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList().toCollection(LinkedHashSet<Byte>(mapCapacity(size)))
    }
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun <T> Array<out T>.toList(): List<T> {
    return when (size) {
        0 -> emptyList()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))
    }
}
BooleanArray.toSet(): Set<Boolean> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n    } \n} \n\n* * * * * Returns a [Set] of all elements.\n\n* * * * * The returned set preserves the element iteration order of the original array.\n\nCharArray.toSet(): Set<Char> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Char>(mapCapacity(size)))\n    } \n} \n\n* * * * * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMap\n* * * * *gulp inline fun \n\nT> flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n* * * * * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMap\n* * * * *gulp inline fun \n\n< R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n* * * * * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMap\n* * * * *gulp inline fun \n\n< R> ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n* * * * * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMap\n* * * * *gulp inline fun \n\n< R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n* * * * * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMap\n* * * * *gulp inline fun \n\n< R> FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n* * * * * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMap\n* * * * *gulp inline fun \n\n< R> DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n* * * * * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMap\n* * * * *gulp inline fun \n\n< R> BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n* * * * * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMap\n* * * * *gulp inline fun \n\n< R> CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n* * * * * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMap\n* * * * *gulp inline fun \n\n< R> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C {\n    \n    val list = transform(element)\n    destination.addAll(list)\n    \n} \n\n* * * * * Adds all elements yielded from results of [transform] function being invoked on each element of original array, to the given \n\n[destination].\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMapTo\n* * * * *gulp inline fun \n\n< R> ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n    \n    val list = transform(element)\n    destination.addAll(list)\n    \n} \n\n* * * * * Adds all elements yielded from results of [transform] function being invoked on each element of original array, to the given \n\n[destination].\n\n* * * * * @sample samples.collections.Collections.Transformations.flatMapTo

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elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].

 */
public inline fun <R, C : MutableCollection<R>> IntArray.flatMapTo(destination: C,
transform: (Int) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<R>> LongArray.flatMapTo(destination: C,
transform: (Long) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<R>> FloatArray.flatMapTo(destination: C,
transform: (Float) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<R>> DoubleArray.flatMapTo(destination: C,
transform: (Double) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<R>> BooleanArray.flatMapTo(destination: C,
transform: (Boolean) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<R>> CharArray.flatMapTo(destination: C,
transform: (Char) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector]
function and returns a map where each group key is associated with a list of corresponding elements.

 * The returned map preserves the entry iteration order of the keys produced from the
original array.
 */
public inline fun <T, K> Array<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector]
function and returns a map where each group key is associated with a list of corresponding elements.

 * The returned map preserves the entry iteration order of the keys produced from the
original array.
 */
public inline fun <K> ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {
    return groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector]
function and returns a map where each group key is associated with a list of corresponding elements.

 * The returned map preserves the entry iteration order of the keys produced from the
original array.
 */
public inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {
    return groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector]
function and returns a map where each group key is associated with a list of corresponding elements.

 * The returned map preserves the entry iteration order of the keys produced from the
original array.
 */
public inline fun <K> IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {
    return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)
}
inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {
    return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and returns a map where each group key is associated with a list of corresponding elements.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <sample

samples.collections.Collections.Transformations.groupBy

FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {
    return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and returns a map where each group key is associated with a list of corresponding elements.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <@sample

samples.collections.Collections.Transformations.groupBy

CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {
    return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function
 * and returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <@sample

samples.collections.Collections.Transformations.groupBy

ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function
 * and returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <@sample

samples.collections.Collections.Transformations.groupBy

ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function
 * and returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <@sample

samples.collections.Collections.Transformations.groupBy

byteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function
 * and returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <@sample

samples.collections.Collections.Transformations.groupBy

shortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}
produced from the original array.* * * * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <K, V> IntArray.groupBy(keySelector: (Int) -> K, valueTransformer: (Int) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransformer)
}

/**
 * Groups values
 * returned by the [valueTransformer] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element and returns a map
 * where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 * * * * * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <K, V> LongArray.groupBy(keySelector: (Long) -> K, valueTransformer: (Long) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransformer)
}

/**
 * Groups values
 * returned by the [valueTransformer] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element and returns a map
 * where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 * * * * * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <K, V> FloatArray.groupBy(keySelector: (Float) -> K, valueTransformer: (Float) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransformer)
}

/**
 * Groups values
 * returned by the [valueTransformer] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element and returns a map
 * where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 * * * * * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <K, V> DoubleArray.groupBy(keySelector: (Double) -> K, valueTransformer: (Double) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransformer)
}

/**
 * Groups values
 * returned by the [valueTransformer] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element and returns a map
 * where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 * * * * * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransformer: (Boolean) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransformer)
}

/**
 * Groups elements
 * of the original array by the key returned by the given [keySelector] function and puts to
 * the [destination] map each group key associated with a list of corresponding elements.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 * * * * * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransformer: (T) -> V): M {
    for (element in this)
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<T>() }
        list.add(element)
    return destination
}

/**
 * Groups elements
 * of the original array by the key returned by the given [keySelector] function and puts to
 * the [destination] map each group key associated with a list of corresponding elements.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 * * * * * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransformer: (T) -> V): M {
    for (element in this)
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<T>(1) }
        list.add(element)
    return destination
}
fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Byte>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Short>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Int>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Long>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Float>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Double>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Boolean>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Char>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Byte>() }
        list.add(element)
    }
    return destination
}
/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array by the key returned by the given [keySelector] function applied to the
 * [destination] map and puts to the
 * [destination] map each group key associated with a list of corresponding values.
 */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array by the key returned by the given [keySelector] function applied to the
 * [destination] map and puts to the
 * [destination] map each group key associated with a list of corresponding values.
 */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array by the key returned by the given [keySelector] function applied to the
 * [destination] map and puts to the
 * [destination] map each group key associated with a list of corresponding values.
 */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array by the key returned by the given [keySelector] function applied to the
 * [destination] map and puts to the
 * [destination] map each group key associated with a list of corresponding values.
 */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array by the key returned by the given [keySelector] function applied to the
 * [destination] map and puts to the
 * [destination] map each group key associated with a list of corresponding values.
 */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array by the key returned by the given [keySelector] function applied to the
 * [destination] map and puts to the
 * [destination] map each group key associated with a list of corresponding values.
 */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array by the key returned by the given [keySelector] function applied to the
 * [destination] map and puts to the
 * [destination] map each group key associated with a list of corresponding values.
 */
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}
[valueTransform] function applied to each element of the original array * by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.

*valueTransform* function applied to each element of the original array * by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.

*keySelector* function applied to each element.

*valueTransform* function applied to each element of the original array * by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.

*keySelector* function applied to each element.

*valueTransform* function applied to each element of the original array * by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.

*keySelector* function applied to each element.

*valueTransform* function applied to each element of the original array * by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.
the original array.

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

* @param inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> { 
    return mapIndexedTo(ArrayList<R>(size), transform, arrayIn) }

* Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

* @param inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform, arrayIn) }

* Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

* @param inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform, arrayIn) } 

* Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

* @param inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform, arrayIn) } 

* Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

* @param inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform, arrayIn) } 

* Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

* @param inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform, arrayIn) } 

* Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

* @param inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform, arrayIn) } 

* Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

* @param inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform, arrayIn) } 

* Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

* @param inline fun <T, R : Any> Array<out T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> { 
    return mapIndexedNotNullTo(ArrayList<R>(), transform, arrayIn) } 

* Applies the given [transform] function to each element and its index in the original array and appends only the non-null results to the given destination.

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

* @param inline fun <T, R : Any> Array<out T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C { 
    forEachIndexed { index, element -> transform(index, element) } } 

* Applies the given [transform] function to each element and its index in the original array and appends the results to the given
[destination].

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableCollection<R>> ArrayOut<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableCollection<R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableCollection<R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableCollection<R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

* @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

public inline fun <T, R, C : MutableList<R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
    @n var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
/**
 * Returns a lazy [Iterable] that wraps each element of the original array
 * into an [IndexedValue] containing the index of that element and the element itself.
 */

public fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy [Iterable] that wraps each element of the original array
 * into an [IndexedValue] containing the index of that element and the element itself.
 */

public fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public fun <T> Array<out T>.distinct(): List<T> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public fun ByteArray.distinct(): List<Byte> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public fun ShortArray.distinct(): List<Short> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public fun IntArray.distinct(): List<Int> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public fun LongArray.distinct(): List<Long> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public fun FloatArray.distinct(): List<Float> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public fun DoubleArray.distinct(): List<Double> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public fun BooleanArray.distinct(): List<Boolean> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only distinct elements from the given array.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public fun CharArray.distinct(): List<Char> {
    return this.toMutableSet().toList()
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K): List<T> {
    val set = HashSet<K>()
    val list = ArrayList<T>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only elements from the given array
 * having distinct keys returned by the given [selector] function.
 * The elements in the resulting list are in the same order as they were in the source array.
 */

public inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {
    val set = HashSet<K>()
    val list = ArrayList<Byte>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}
```
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *\npublic inline fun <K>\nShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n    val set = HashSet<K>()\n    val list = ArrayList<Short>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n
 *\n * The elements in the resulting list are in the same order as they were in the source array.\n * * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *\nIntArray.distinctBy(selector: (Int) -> K): List<Int> {\n    val set = HashSet<K>()\n    val list = ArrayList<Int>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n
 *\n * The elements in the resulting list are in the same order as they were in the source array.\n * * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *\nLongArray.distinctBy(selector: (Long) -> K): List<Long> {\n    val set = HashSet<K>()\n    val list = ArrayList<Long>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n
 *\n * The elements in the resulting list are in the same order as they were in the source array.\n * * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *\nFloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n    val set = HashSet<K>()\n    val list = ArrayList<Float>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n
 *\n * The elements in the resulting list are in the same order as they were in the source array.\n * * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *\nDoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n    val set = HashSet<K>()\n    val list = ArrayList<Double>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n
 *\n * The elements in the resulting list are in the same order as they were in the source array.\n * * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *\nCharArray.distinctBy(selector: (Char) -> K): List<Char> {\n    val set = HashSet<K>()\n    val list = ArrayList<Char>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n
public inline fun <T>\nArray<T>.intersect(other: Iterable<T>): Set<T> {\n    val set = this.toMutableSet()\n    return set.intersect(other)\n}\n```
set.addAll(other)
return set
}

/**
 * Returns a set containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 */
public fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

/**
 * Returns a mutable set containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 */
public fun Array<out T>.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

/**
 * Returns a mutable set containing all distinct elements from the given array.
 */
public fun <T> BooleanArray.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

/**
 * Returns a mutable set containing all distinct elements from the given array.
 */
public fun <T> CharArray.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

/**
 * Returns a mutable set containing all distinct elements from the given array.
 */
public fun <T> DoubleArray.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

/**
 * Returns a mutable set containing all distinct elements from the given array.
 */
public fun <T> FloatArray.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

/**
 * Returns a mutable set containing all distinct elements from the given array.
 */
public fun <T> IntArray.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

/**
 * Returns a mutable set containing all distinct elements from the given array.
 */
public fun <T> ShortArray.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

/**
 * Returns a mutable set containing all distinct elements from the given array.
 */
public fun <T> ByteArray.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

set.addAll(other)
return set
}

/**
 * Returns a set containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 */
public fun <T> CharArray.subtract(other: Iterable<Char>): Set<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set.subtract(other)
}

/**
 * Returns a set containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 */
public fun <T> BooleanArray.subtract(other: Iterable<Boolean>): Set<T> {
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set.subtract(other)
}

/**
 * Returns a set containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 */
public fun <T> DoubleArray.subtract(other: Iterable<Double>): Set<Double> {
    val set = LinkedHashSet<Double>(mapCapacity(size))
    for (item in this) set.add(item)
    return set.subtract(other)
}

/**
 * Returns a set containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 */
public fun <T> FloatArray.subtract(other: Iterable<Float>): Set<Float> {
    val set = LinkedHashSet<Float>(mapCapacity(size))
    for (item in this) set.add(item)
    return set.subtract(other)
}

/**
 * Returns a set containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 */
public fun <T> IntArray.subtract(other: Iterable<Int>): Set<Int> {
    val set = LinkedHashSet<Int>(mapCapacity(size))
    for (item in this) set.add(item)
    return set.subtract(other)
}

/**
 * Returns a set containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 */
public fun <T> ShortArray.subtract(other: Iterable<Short>): Set<Short> {
    val set = LinkedHashSet<Short>(mapCapacity(size))
    for (item in this) set.add(item)
    return set.subtract(other)
}

/**
 * Returns a set containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 */
public fun <T> ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {
    val set = LinkedHashSet<Byte>(mapCapacity(size))
    for (item in this) set.add(item)
    return set.subtract(other)
}
(!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given [predicate].
 * @sample samples.collections.Collections.Aggregates.all
 */
public inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given [predicate].
 * @sample samples.collections.Collections.Aggregates.all
 */
public inline fun CharArray.all(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given [predicate].
 * @sample samples.collections.Collections.Aggregates.all
 */
public fun <T> Array<out T>.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun <T> Array<out T>.anyWithPredicate(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun ByteArray.anyWithPredicate(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun ShortArray.anyWithPredicate(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun IntArray.anyWithPredicate(predicate: (Int) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun LongArray.anyWithPredicate(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun FloatArray.anyWithPredicate(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun DoubleArray.anyWithPredicate(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun BooleanArray.anyWithPredicate(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}
samples.collections.Collections.Aggregates.anyWithPredicate

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@kotlin.internal.InlineOnly
public inline fun byteArray.count(predicate: (Byte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@kotlin.internal.InlineOnly
public inline fun shortArray.count(predicate: (Short) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@kotlin.internal.InlineOnly
public inline fun intArray.count(predicate: (Int) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@kotlin.internal.InlineOnly
public inline fun longArray.count(predicate: (Long) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@kotlin.internal.InlineOnly
public inline fun floatArray.count(predicate: (Float) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@kotlin.internal.InlineOnly
public inline fun doubleArray.count(predicate: (Double) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@kotlin.internal.InlineOnly
public inline fun booleanArray.count(predicate: (Boolean) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@kotlin.internal.InlineOnly
public inline fun charArray.count(predicate: (Char) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 */
public inline fun <R> Array<out T>.fold(initial: R, operation: (R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 */
public inline fun byteArray.fold(initial: R, operation: (R, Byte) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 */
public inline fun shortArray.fold(initial: R, operation: (R, Short) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 */
public inline fun intArray.fold(initial: R, operation: (R, Int) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 */
public inline fun longArray.fold(initial: R, operation: (R, Long) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 */
public inline fun floatArray.fold(initial: R, operation: (R, Float) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 */
public inline fun doubleArray.fold(initial: R, operation: (R, Double) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 */
public inline fun booleanArray.fold(initial: R, operation: (R, Boolean) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
 */
public inline fun charArray.fold(initial: R, operation: (R, Char) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
to current accumulator value and each element.

```kotlin
// an inline fun
IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value.

```kotlin
LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value and each element.

```kotlin
FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value and each element.

```kotlin
DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value and each element.

```kotlin
CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value and each element.

```kotlin
CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, index++, accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value and each element.

```kotlin
ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, index++, accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value and each element.

```kotlin
ByteArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value and each element.

```kotlin
CharArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value and each element.

```kotlin
ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value and each element.

```kotlin
ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, index++, accumulator, element)
    return accumulator
}
```

Accumulates value starting with `initial` value and applying `operation` from left to right to current accumulator value and each element.
function that takes the index of an element, current accumulator value, and the element itself, and calculates the next accumulator value.

```kotlin
public inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}
```

```kotlin
public inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```kotlin
public inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```kotlin
public inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}
```

```kotlin
public inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

```kotlin
public inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}
```

```kotlin
public inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}
```

```kotlin
public inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}
```

```kotlin
public inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}
```

```kotlin
public inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}
```

```kotlin
public inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}
```

```kotlin
public inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}
```

```kotlin
public inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}
```

```kotlin
public inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}
```

```kotlin
public inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}
```
current accumulator value, and calculates the next accumulator value:

```java
public inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

**Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.**

```java
public inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

**Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.**

```java
public inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}
```

**Performs the given [action] on each element, providing sequential index with the element.**

```java
public inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}
```

**Performs the given [action] on each element, providing sequential index with the element.**

```java
public inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}
```

**Performs the given [action] on each element, providing sequential index with the element.**

```java
public inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}
```

**Performs the given [action] on each element, providing sequential index with the element.**

```java
public inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}
```

**Performs the given [action] on each element, providing sequential index with the element.**

```java
public inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}
```

**Performs the given [action] on each element, providing sequential index with the element.**

```java
public inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {
    var index = 0
    for (item in this)
```
// Performs the given [action] on each element, providing sequential index with the element.
@<param [action] function that takes the index of an element and the element itself
* and performs the desired action on the element.

public inline fun ByteArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit

public inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit

public inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit

public inline fun CharArray.maxBy(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max <= e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun <T : Comparable<T>> Array<out T>.max(): T? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun ByteArray.max(): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max <= e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun DoubleArray.max(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun FloatArray.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max <= e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun IntArray.max(): Int? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun LongArray.max(): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun ShortArray.max(): Short? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun DoubleArray.max(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun FloatArray.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max <= e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun IntArray.max(): Int? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun LongArray.max(): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun ShortArray.max(): Short? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun DoubleArray.max(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun FloatArray.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max <= e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun IntArray.max(): Int? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun LongArray.max(): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max <= e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun ShortArray.max(): Short? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max <= e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun DoubleArray.max(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun FloatArray.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max <= e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun IntArray.max(): Int? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun LongArray.max(): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max <= e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun ShortArray.max(): Short? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max <= e) max = e
    }
    return max
}
of the given function or `null` if there are no elements.

```kotlin
shortArray.maxBy(selector: (Short) -> R): Short? {
    if (isEmpty()) return null
    var maxElem = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
IntArray.maxBy(selector: (Int) -> R): Int? {
    if (isEmpty()) return null
    var maxElem = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
LongArray.maxBy(selector: (Long) -> R): Long? {
    if (isEmpty()) return null
    var maxElem = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
FloatArray.maxBy(selector: (Float) -> R): Float? {
    if (isEmpty()) return null
    var maxElem = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {
    if (isEmpty()) return null
    var maxElem = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
CharArray.maxBy(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var maxElem = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
Array<out T>.maxWith(comparator: Comparator<in T>): T? {
    if (isEmpty()) return null
    var maxElem = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        var e = this[i]
        var v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return max
    var maxValue = selector(max)
    for (i in 1..lastIndex) {
        var e = this[i]
        if (comparator.compare(max, e) < 0) max = e
        var v = selector(e)
        if (maxValue < v) {
            max = e
            maxValue = v
        }
    }
    return max
}
```
(comparator.compare(max, e) < 0) max = e
    } return max
}

public fun FloatArray.min(): Float? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (e.isNaN()) return e
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
public fun FloatArray.maxWith(comparator: Comparator<Float>): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) > 0) max = e
    }
    return max
}

/**
 * Returns the largest element according to the provided [comparator] or `null` if there are no elements.
 */
public fun FloatArray.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
public fun ByteArray.min(): Byte? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the largest element according to the provided [comparator] or `null` if there are no elements.
 */
public fun ByteArray.max(): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
public fun LongArray.min(): Long? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the largest element according to the provided [comparator] or `null` if there are no elements.
 */
public fun LongArray.max(): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
public fun ShortArray.min(): Short? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the largest element according to the provided [comparator] or `null` if there are no elements.
 */
public fun ShortArray.max(): Short? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
public fun IntArray.min(): Int? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the largest element according to the provided [comparator] or `null` if there are no elements.
 */
public fun IntArray.max(): Int? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
public fun LongArray.maxWith(comparator: Comparator<Long>): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the largest element according to the provided [comparator] or `null` if there are no elements.
 */
public fun LongArray.max(): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
public fun DoubleArray.min(): Double? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the largest element according to the provided [comparator] or `null` if there are no elements.
 */
public fun DoubleArray.max(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
public fun DoubleArray.maxWith(comparator: Comparator<Double>): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the largest element according to the provided [comparator] or `null` if there are no elements.
 */
public fun <T : Comparable<T>> Array<out T>.min(): T? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the smallest element according to the provided [comparator] or `null` if there are no elements.
 */
public fun <T : Comparable<T>> Array<out T>.max(): T? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
public fun BooleanArray.min(): Boolean? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the largest element according to the provided [comparator] or `null` if there are no elements.
 */
public fun BooleanArray.max(): Boolean? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element having the
...
smallest element or `null` if there are no elements. If any of elements is `NaN` returns `NaN`.

```kotlin
public fun DoubleArray.min(): Double? {
    if (isEmpty()) return null
    var min = this[0]
    if (min.isNaN()) return min
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

public fun CharArray.min(): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

public inline fun <T, R : Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

public inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

public inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R): Short? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

public inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

public inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

public inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

public inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) -> R): Double? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}
```

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of the given function or 'null' if there are no elements.

```kotlin
public inline fun <R : Comparable<R>>
BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
public inline fun <R : Comparable<R>>
CharArray.minBy(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element having the smallest value according to the provided comparator or 'null' if there are no elements.
 */
public fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided comparator or 'null' if there are no elements.
 */
public fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided comparator or 'null' if there are no elements.
 */
public fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided comparator or 'null' if there are no elements.
 */
public fun IntArray.minWith(comparator: Comparator<in Int>): Int? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided comparator or 'null' if there are no elements.
 */
public fun LongArray.minWith(comparator: Comparator<in Long>): Long? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided comparator or 'null' if there are no elements.
 */
public fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided comparator or 'null' if there are no elements.
 */
public fun DoubleArray.minWith(comparator: Comparator<in Double>): Double? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if the array has no elements.
 */
public fun booleanArray.minWith(comparator: Comparator<in Boolean>): Boolean? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
```

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samples.collections.Collections.Aggregates.none

```kotlin
public fun ShortArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun IntArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun LongArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun FloatArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun DoubleArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun BooleanArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 */
public inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 */
public inline fun ByteArray.none(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 */
public inline fun ShortArray.none(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 */
public inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 */
public inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 */
public inline fun FloatArray.none(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 */
public inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample
 */
public inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * 
 * @sample
 */
public inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

```kotlin
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```
UnsupportedOperationException("Empty array can't be reduced.")

```kotlin
fun reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, index, this[index])
    }
    return accumulator
}
```

UnsupportedOperationException("Empty array can't be reduced.")

```kotlin
fun reduceIndexed(operation: (acc: T, acc: S, T) -> S): S {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, index, this[index])
    }
    return accumulator
}
```

UnsupportedOperationException("Empty array can't be reduced.")

```kotlin
fun reduceIndexed(operation: (acc: Double, acc: S, T) -> S): Double {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, index, this[index])
    }
    return accumulator
}
```

UnsupportedOperationException("Empty array can't be reduced.")

```kotlin
fun reduceIndexed(operation: (acc: Float, acc: S, T) -> S): Float {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, index, this[index])
    }
    return accumulator
}
```

UnsupportedOperationException("Empty array can't be reduced.")

```kotlin
fun reduceIndexed(operation: (acc: Long, acc: S, T) -> S): Long {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, index, this[index])
    }
    return accumulator
}
```

UnsupportedOperationException("Empty array can't be reduced.")

```kotlin
fun reduceIndexed(operation: (acc: Int, acc: S, T) -> S): Int {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, index, this[index])
    }
    return accumulator
}
```

UnsupportedOperationException("Empty array can't be reduced.")

```kotlin
fun reduceIndexed(operation: (acc: Short, acc: S, T) -> S): Short {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, index, this[index])
    }
    return accumulator
}
```
ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte { return 0 }

ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short { return 0 }

FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float { return 0 }

LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long { return 0 }

IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int { return 0 }

ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short { return 0 }

ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte { return 0 }
calculates the next accumulator value.

public inline fun CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0] for (index in 1..lastIndex) { accumulator = operation(index, accumulator, this[index]) return accumulator }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun @sample samples.collections.Collections.Aggregates.reduceOrNull

*/

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {
    if (isEmpty()) return null
    var accumulator = this[0] for (index in 1..lastIndex) { accumulator = operation(accumulator, this[index]) return accumulator }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {
    if (isEmpty()) return null
    var accumulator = this[0] for (index in 1..lastIndex) { accumulator = operation(accumulator, this[index]) return accumulator }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {
    if (isEmpty()) return null
    var accumulator = this[0] for (index in 1..lastIndex) { accumulator = operation(accumulator, this[index]) return accumulator }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
    if (isEmpty()) return null
    var accumulator = this[0] for (index in 1..lastIndex) { accumulator = operation(accumulator, this[index]) return accumulator }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {
    if (isEmpty()) return null
    var accumulator = this[0] for (index in 1..lastIndex) { accumulator = operation(accumulator, this[index]) return accumulator }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {
    if (isEmpty()) return null
    var accumulator = this[0] for (index in 1..lastIndex) { accumulator = operation(accumulator, this[index]) return accumulator }
    return accumulator
}

*/
samples.collections.Collections.Aggregates.reduceOrNull

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```
accumulator\n})\n\n/**
 * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself, and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself, and current accumulator value.
 */
public inline fun String.reduceRightIndexed(operation: (Int, String, acc: String) -> String): String {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself, and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself, and current accumulator value.
 */
public inline fun Char.reduceRightIndexed(operation: (Int, Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself, and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself, and current accumulator value.
 */
public inline fun Short.reduceRightIndexed(operation: (Int, Short, acc: Short) -> Short): Short {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself, and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself, and current accumulator value.
 */
public inline fun Int.reduceRightIndexed(operation: (Int, Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself, and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself, and current accumulator value.
 */
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}
accumulator = get(index--)
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
}
return accumulator

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself
 * and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself
 * and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself
 * and current accumulator value, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns null if the array is empty.
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator: S = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value. Returns null if the array is empty.
 * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte) -> Byte): Byte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator: Byte = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ShortArray.reduceRightOrNull(operation:
    (Short, acc: Short) -> Short): Short? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value. Returns null if the array is empty.
 * @sample samples.collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun IntArray.reduceRightOrNull(operation:
    (Int, acc: Int) -> Int): Int? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value. Returns null if the array is empty.
 * @sample samples.collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun LongArray.reduceRightOrNull(operation:
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value. Returns null if the array is empty.
 * @sample samples.collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun FloatArray.reduceRightOrNull(operation:
    (Float, acc: Float) -> Float): Float? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value. Returns null if the array is empty.
 * @sample samples.collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = operation(get(index--), accumulator)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.
 * @sample samples.collections.Aggregates.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <T, R> Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for
```
(element in this) { 
    accumulator = operation(accumulator, element)
    result.add(accumulator)
} /*
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value that starts with [initial] value. *
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list. *
 * @param [operation] function that takes current accumulator value and an element, and calculates the next
 * accumulator value.
 */

/*
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value. *
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list. *
 * @param [operation] function that takes current accumulator value and an element, and calculates the next
 * accumulator value.
 */

/*
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value. *
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list. *
 * @param [operation] function that takes current accumulator value and an element, and calculates the next
 * accumulator value.
 */

/*
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value. *
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list. *
 * @param [operation] function that takes current accumulator value and an element, and calculates the next
 * accumulator value.
 */

/*
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value. *
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list. *
 * @param [operation] function that takes current accumulator value and an element, and calculates the next
 * accumulator value.
 */

/*
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value. *
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list. *
 * @param [operation] function that takes current accumulator value and an element, and calculates the next
 * accumulator value.
 */

/*
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value. *
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list. *
 * @param [operation] function that takes current accumulator value and an element, and calculates the next
 * accumulator value.
 */

/*
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value. *
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list. *
 * @param [operation] function that takes current accumulator value and an element, and calculates the next
 * accumulator value.
 */

/*
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each element and current accumulator value that starts with [initial] value. *
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list. *
 * @param [operation] function that takes current accumulator value and an element, and calculates the next
 * accumulator value.
 */
each element and current accumulator value that starts with [initial] value.\n * \n * Note that ‘acc’ value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>\n
_DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n  return result\n}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>\n
_BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n  return result\n}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>\n
_CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n  return result\n}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R, T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>\n
_ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>\n
_ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>\n
_ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}
otherwise it would affect the previous value in resulting list.

@sample samples.collections.Collections.Aggregates.scan

*@
@SinceKotlin("1.3")@n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>
ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    } return result
}

*@
@SinceKotlin("1.3")@n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>
IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    } return result
}

*@
@SinceKotlin("1.3")@n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    } return result
}

*@
@SinceKotlin("1.3")@n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>
FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    } return result
}

*@
@SinceKotlin("1.3")@n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun <R>
DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    } return result
}
values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

The next accumulator value is calculated as follows:

1. Initialize `acc` with the [initial] value.
2. Apply [operation] function to each element, its index in the original array, and the current accumulator value.
3. The result is the next accumulator value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

The next accumulator value is calculated as follows:

1. Initialize `acc` with the [initial] value.
2. Apply [operation] function to each element, its index in the original array, and the current accumulator value.
3. The result is the next accumulator value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

The next accumulator value is calculated as follows:

1. Initialize `acc` with the [initial] value.
2. Apply [operation] function to each element, its index in the original array, and the current accumulator value.
3. The result is the next accumulator value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

The next accumulator value is calculated as follows:

1. Initialize `acc` with the [initial] value.
2. Apply [operation] function to each element, its index in the original array, and the current accumulator value.
3. The result is the next accumulator value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
the next accumulator value.

```kotlin
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun IntArray.scanReduce(operation: (acc: Int, Int) -> Int): List<Int>
{\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Int>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result
}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun LongArray.scanReduce(operation: (acc: Long, Long) -> Long): List<Long>
{\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Long>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result
}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun FloatArray.scanReduce(operation: (acc: Float, Float) -> Float): List<Float>
{\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Float>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result
}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun DoubleArray.scanReduce(operation: (acc: Double, Double) -> Double): List<Double>
{\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Double>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result
}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun BooleanArray.scanReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean>
{\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result
}\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic inline fun CharArray.scanReduce(operation: (acc: Char, Char) -> Char): List<Char>
{\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result
}
```

This code defines a `scanReduce` function for various numeric and character arrays. It applies an operation to each element of the array along with the current accumulator value, starting with the first element of the array. The operation is specified by a lambda function that takes an accumulator and an element, and returns a new accumulator value. The result is a list of accumulated values.

The `operation` function is applied from left to right on each element and the current accumulator value. The accumulator value starts with the first element of the array. If the array is empty, an empty list is returned.

The function is inline and experimental, indicating it is part of the Kotlin standard library, but may not be officially supported in all environments.

The documentation for each array type (Int, Long, Float, Double, Boolean, Char) describes the `scanReduce` function in detail, specifying the types of the accumulator and the elements, as well as the return type of the function.
element of this array.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. The function takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <S, T : S> Array<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    if (isEmpty()) return emptyList()
    var accumulator: S = this[0]
    val result = ArrayList<S>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun ByteArray.scanReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Byte>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun ShortArray.scanReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Short>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun IntArray.scanReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Int>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Long>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

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accumulator.value.

*\n
@sample samples.collections.Collections.Aggregates.scanReduce

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.scanReduceIndexed(operation: (index: Int, acc: Float) -> Float): List<Float> { if (isEmpty()) return emptyList() \n\n var accumulator = this[0] \n\n val result = ArrayList<Float>(size).apply { \n\n add(accumulator) \n\n } \n\n for (index in 1 until size) { \n\n accumulator = operation(index, accumulator, this[index]) \n\n result.add(accumulator) \n\n } \n\n return result

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.scanReduceIndexed(operation: (index: Int, acc: Double) -> Double): List<Double> { if (isEmpty()) return emptyList() \n\n var accumulator = this[0] \n\n val result = ArrayList<Double>(size).apply { \n\n add(accumulator) \n\n } \n\n for (index in 1 until size) { \n\n accumulator = operation(index, accumulator, this[index]) \n\n result.add(accumulator) \n\n } \n\n return result

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.scanReduceIndexed(operation: (index: Int, acc: Boolean) -> Boolean): List<Boolean> { if (isEmpty()) return emptyList() \n\n var accumulator = this[0] \n\n val result = ArrayList<Boolean>(size).apply { \n\n add(accumulator) \n\n } \n\n for (index in 1 until size) { \n\n accumulator = operation(index, accumulator, this[index]) \n\n result.add(accumulator) \n\n } \n\n return result

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.scanReduceIndexed(operation: (index: Int, acc: Char) -> Char): List<Char> { if (isEmpty()) return emptyList() \n\n var accumulator = this[0] \n\n val result = ArrayList<Char>(size).apply { \n\n add(accumulator) \n\n } \n\n for (index in 1 until size) { \n\n accumulator = operation(index, accumulator, this[index]) \n\n result.add(accumulator) \n\n } \n\n return result

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int { var sum: Int = 0 \n\n for (element in this) { \n\n sum += selector(element) \n\n } \n\n return sum

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int { var sum: Int = 0 \n\n for (element in this) { \n\n sum += selector(element) \n\n } \n\n return sum

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun ShortArray.sumBy(selector: (Short) -> Int): Int { var sum: Int = 0 \n\n for (element in this) { \n\n sum += selector(element) \n\n } \n\n return sum

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun IntArray.sumBy(selector: (Int) -> Int): Int { var sum: Int = 0 \n\n for (element in this) { \n\n sum += selector(element) \n\n } \n\n return sum

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun LongArray.sumBy(selector: (Long) -> Int): Int { var sum: Int = 0 \n\n for (element in this) { \n\n sum += selector(element) \n\n } \n\n return sum

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun FloatArray.sumBy(selector: (Float) -> Int): Int { var sum: Int = 0 \n\n for (element in this) { \n\n sum += selector(element) \n\n } \n\n return sum

*\n
@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun DoubleArray.sumBy(selector: (Double) -> Double): List<Double> { if (isEmpty()) return emptyList() \n\n var accumulator = this[0] \n\n val result = ArrayList<Double>(size).apply { \n\n add(accumulator) \n\n } \n\n for (index in 1 until size) { \n\n accumulator = operation(index, accumulator, this[index]) \n\n result.add(accumulator) \n\n } \n\n return result
applied to each element in the array.

* */

public inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun CharArray.sumBy(selector: (Char) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun LongArray.sumBy(selector: (Long) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun IntArray.sumBy(selector: (Int) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* */

public inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
Returns a list of pairs built from the elements of `this` array and the `other` array with the same index.

```kotlin
IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```
/**
 * Returns a list of pairs built from the elements of `this` array and the `other` array with the same index.
 * The returned list has length of the shortest collection.
 * 
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
public infix fun <R> ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```
CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {
    val first = ArrayList<Char>()
    val second = ArrayList<Char>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}
```

```
/*
array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `false`,
* while *second* list contains elements for which [predicate] yielded `true`.
* The returned list has length of the shortest array.
* 
* @sample samples.collections.Iterables.Operations.zipIterable
 */
public inline fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```
Boolean): Pair<List<Short>, List<Short>> {
    var first = ArrayList<Short>()
    var second = ArrayList<Short>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}
```
returned list has length of the shortest collection.

```kotlin
public infix fun <R> LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
public infix fun <R> FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
public infix fun <R> DoubleArray.zip(other: Array<out R>): List<Pair<Double, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
public infix fun <R> BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
public infix fun <R> CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
public inline fun <T, R, V> Array<out T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

```kotlin
public inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

```kotlin
public inline fun <R, V> ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

```kotlin
public inline fun <R, V> IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

```kotlin
public inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```
FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

* Returns a list of values built from the elements of ‘this’ array and the [other] array
with the same index
* using the provided [transform] function applied to each pair of elements.

The returned list has length of the shortest collection.

* * @sample samples.collections.Operations.zipIterableWithTransform

DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

* Returns a list of values built from the elements of ‘this’ array and the [other] array
with the same index
* using the provided [transform] function applied to each pair of elements.

The returned list has length of the shortest collection.

* * @sample samples.collections.Operations.zipIterableWithTransform

BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with
the same index.

* * @sample samples.collections.Operations.zipIterableWithTransform

CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with
the same index.

* * @sample samples.collections.Operations.zipIterableWithTransform

ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with
the same index.

* * @sample samples.collections.Operations.zipIterable

ShortArray.zip(other: Iterable<R>): List<Pair<Short, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with
the same index.

* * @sample samples.collections.Operations.zipIterable

IntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with
the same index.

* * @sample samples.collections.Operations.zipIterable

LongArray.zip(other: Iterable<R>): List<Pair<Long, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with
the same index.

* * @sample samples.collections.Operations.zipIterable

FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with
the same index.

* * @sample samples.collections.Operations.zipIterable

DoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with
the same index.

* * @sample samples.collections.Operations.zipIterable
Returns a list of pairs built from the elements of 'this' collection and [other] array with the same index\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> CharArray.zip(other: Iterable<R>): List<Pair<Char, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n    }\n\n/**\n * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <T, R, V> Array<out T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n    var i = 0\n    var if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n    }\n\n/**\n * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V> ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {\n    var i = 0\n    var if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n    }\n\n/**\n * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {\n    var i = 0\n    var if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n    }\n\n/**\n * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V> IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {\n    var i = 0\n    var if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n    }\n\n/**\n * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V> LongArray.zip(other: Iterable<R>, transform: (a: Long, b: R) -> V): List<V> {\n    var i = 0\n    var if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n    }\n\n/**\n * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V> FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {\n    var i = 0\n    var if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n    }\n\n/**\n * Returns a list of values built from the elements of 'this' array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n    var i = 0\n    var if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n    }
`**Returns a list of values built from the elements of `this` array and the [other] collection with the same index and using the provided [transform] function applied to each pair of elements.\n** The returned list has length of the shortest collection.\n
*` samples.collections.Iterables.Operations.zipIterableV

*`public inline fun `<R, V>` BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> { val arraySize = size\n val list = ArrayList<V>(minOf(other.size, arraySize))\n var i = 0\n for (element in other) { \n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n\n*` Returns a list of values built from the elements of `this` array and the [other] collection with the same index and using the provided [transform] function applied to each pair of elements.\n
*` samples.collections.Iterables.Operations.zipIterableWithTransformV

*`public inline fun `<R, V>` CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> { val arraySize = size\n val list = ArrayList<V>(minOf(other.size, arraySize))\n var i = 0\n for (element in other) { \n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n\n*` Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n
*` The returned list has length of the shortest collection.\n
*` samples.collections.Iterables.Operations.zipIterableV

*`public inline infix fun `<R>` ByteArray.zip(other: ByteArray): List<Pair<Byte, Byte>> { \n return zip(other) { t1, t2 -> t1 to t2 }\n\n*` Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n
*` The returned list has length of the shortest collection.\n
*` samples.collections.Iterables.Operations.zipIterableV

*`public inline fun `<R>` IntArray.zip(other: IntArray): List<Pair<Int, Int>> { \n return zip(other) { t1, t2 -> t1 to t2 }\n\n*` Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n
*` The returned list has length of the shortest collection.\n
*` samples.collections.Iterables.Operations.zipIterableV

*`public inline infix fun `<R>` LongArray.zip(other: LongArray): List<Pair<Long, Long>> { \n return zip(other) { t1, t2 -> t1 to t2 }\n\n*` Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n
*` The returned list has length of the shortest collection.\n
*` samples.collections.Iterables.Operations.zipIterableV

*`public inline fun `<R>` FloatArray.zip(other: FloatArray): List<Pair<Float, Float>> { \n return zip(other) { t1, t2 -> t1 to t2 }\n\n*` Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n
*` The returned list has length of the shortest collection.\n
*` samples.collections.Iterables.Operations.zipIterableV

*`public inline fun `<R>` DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> { \n return zip(other) { t1, t2 -> t1 to t2 }\n\n*` Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n
*` The returned list has length of the shortest collection.\n
*` samples.collections.Iterables.Operations.zipIterableV

*`public inline fun `<R>` BooleanArray.zip(other: BooleanArray): List<Pair<Boolean, Boolean>> { \n return zip(other) { t1, t2 -> t1 to t2 }\n\n*` Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n
*` The returned list has length of the shortest collection.\n
*` samples.collections.Iterables.Operations.zipIterableV

*`public inline fun `<R>` CharArray.zip(other: CharArray): List<Pair<Char, Char>> { \n return zip(other) { t1, t2 -> t1 to t2 }\n\n*` Returns a list of values built from the elements of `this` array and the [other] array with the same index and using the provided [transform] function applied to each pair of elements.\n
*` The returned list has length of the shortest array.\n
*` samples.collections.Iterables.Operations.zipIterableWithTransformV

*`public inline fun `<R>` ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> { \n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) { \n list.add(transform(this[i], other[i]))\n }\n return list\n\n*` Returns a list of values built from the elements of `this` array and the [other] array with the same size and using the provided [transform] function applied to each pair of elements.\n
*` The returned list has length of the shortest array.\n
*` samples.collections.Iterables.Operations.zipIterableWithTransformV

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 15803
list has length of the shortest array.

@sample
samples.collections.Operations.zipIterableWithTransform
*/

fun ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

fun IntArray.zip(other: IntArray, transform: (a: Int, b: Int) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

fun LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

fun FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

fun DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

fun BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

fun CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

fun Appendable.joinTo(buffer: Appendable, separator: Appendable, prefix: Appendable, postfix: Appendable): String {
    var count = 0
    buffer.append(prefix)
    if (limit > 0) count = limit
    buffer.appendElement(element, transform)
    else break
    buffer.append(separator)
    if (limit < 0 || count <= limit) buffer.appendElement(element, transform)
    else buffer.append(postfix)
buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @param separator the string to separate the elements
 * @param prefix the string to append before each element
 * @param postfix the string to append after each element
 * @param limit the number of elements to append
 * @param truncated the string to append if the limit is exceeded (defaults to "...")
 * @param transform a function to transform each element before appending
 * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun <A : Appendable> ByteArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "\n\n", transform: ((Byte) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @param separator the string to separate the elements
 * @param prefix the string to append before each element
 * @param postfix the string to append after each element
 * @param limit the number of elements to append
 * @param truncated the string to append if the limit is exceeded (defaults to "...")
 * @param transform a function to transform each element before appending
 * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun <A : Appendable> BooleanArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "\n\n", transform: ((Boolean) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @param separator the string to separate the elements
 * @param prefix the string to append before each element
 * @param postfix the string to append after each element
 * @param limit the number of elements to append
 * @param truncated the string to append if the limit is exceeded (defaults to "...")
 * @param transform a function to transform each element before appending
 * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun <A : Appendable> CharArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "\n\n", transform: ((Char) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @param separator the string to separate the elements
 * @param prefix the string to append before each element
 * @param postfix the string to append after each element
 * @param limit the number of elements to append
 * @param truncated the string to append if the limit is exceeded (defaults to "...")
 * @param transform a function to transform each element before appending
 * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun <A : Appendable> DoubleArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "\n\n", limit: Int = -1, truncated: CharSequence = "\n\n", transform: ((Double) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @param separator the string to separate the elements
 * @param prefix the string to append before each element
 * @param postfix the string to append after each element
 * @param limit the number of elements to append
 * @param truncated the string to append if the limit is exceeded (defaults to "...")
 * @param transform a function to transform each element before appending
 * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun <A : Appendable> IntArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "\n\n", transform: ((Int) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @param separator the string to separate the elements
 * @param prefix the string to append before each element
 * @param postfix the string to append after each element
 * @param limit the number of elements to append
 * @param truncated the string to append if the limit is exceeded (defaults to "...")
 * @param transform a function to transform each element before appending
 * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun <A : Appendable> LongArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "\n\n", limit: Int = -1, truncated: CharSequence = "\n\n", transform: ((Long) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @param separator the string to separate the elements
 * @param prefix the string to append before each element
 * @param postfix the string to append after each element
 * @param limit the number of elements to append
 * @param truncated the string to append if the limit is exceeded (defaults to "...")
 * @param transform a function to transform each element before appending
 * @sample samples.collections.Collections.Transformations.joinToString
 */
public fun <A : Appendable> ShortArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "\n\n", limit: Int = -1, truncated: CharSequence = "\n\n", transform: ((Short) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
            else buffer.append(element.toString())
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
Iterable<$T$> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun ByteArray.asIterable(): Iterable<$Byte$> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun ShortArray.asIterable(): Iterable<$Short$> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun IntArray.asIterable(): Iterable<$Int$> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun LongArray.asIterable(): Iterable<$Long$> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun FloatArray.asIterable(): Iterable<$Float$> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun DoubleArray.asIterable(): Iterable<$Double$> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun BooleanArray.asIterable(): Iterable<$Boolean$> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun CharArray.asIterable(): Iterable<$Char$> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun ByteArray.asIterator(): Iterable<Byte> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun ShortArray.asIterator(): Iterable<Short> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun IntArray.asIterator(): Iterable<Int> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun LongArray.asIterator(): Iterable<Long> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun FloatArray.asIterator(): Iterable<Float> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun DoubleArray.asIterator(): Iterable<Double> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun BooleanArray.asIterator(): Iterable<Boolean> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

*public fun CharArray.asIterator(): Iterable<Char> { if (isEmpty()) return emptyList() } return Iterable { this.iterator() }<}$n Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 *
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun <T> Array<out T>.asSequence(): Sequence<T> { if (isEmpty()) return emptySequence() } return Sequence { this.iterator() }<}$n Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 *
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun ByteArray.asSequence(): Sequence<Byte> { if (isEmpty()) return emptySequence() } return Sequence { this.iterator() }<}$n Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 *
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun ShortArray.asSequence(): Sequence<Short> { if (isEmpty()) return emptySequence() } return Sequence { this.iterator() }<}$n Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 *
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun IntArray.asSequence(): Sequence<Int> { if (isEmpty()) return emptySequence() } return Sequence { this.iterator() }<}$n Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 *
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun LongArray.asSequence(): Sequence<Long> { if (isEmpty()) return emptySequence() } return Sequence { this.iterator() }<}$n Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 *
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun FloatArray.asSequence(): Sequence<Float> { if (isEmpty()) return emptySequence() } return Sequence { this.iterator() }<}$n Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 *
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun DoubleArray.asSequence(): Sequence<Double> { if (isEmpty()) return emptySequence() } return Sequence { this.iterator() }<}$n Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 *
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun BooleanArray.asSequence(): Sequence<Boolean> { if (isEmpty()) return emptySequence() } return Sequence { this.iterator() }<}$n Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 *
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun CharArray.asSequence(): Sequence<Char> { if (isEmpty()) return emptySequence() } return Sequence { this.iterator() }<}$n Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Array<out Byte>.average(): Double { var sum:
Double = 0.0
var count: Int = 0
for (element in this) {
    sum += element
    ++count
} return if (count == 0) Double.NaN else sum / count

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun Array<out Short>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Array<out Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Array<out Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Array<out Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Array<out Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun ByteArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun ShortArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun IntArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun LongArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun FloatArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun DoubleArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Array<out Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Array<out Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Array<out Long>.sum(): Long {
    var sum: Long = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Array<out Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Array<out Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Array<out Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}
this) {
    sum += element
} return sum

/**
 * Returns the sum of all elements in the array.
 */
public fun IntArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun LongArray.sum(): Long {
    var sum: Long = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun FloatArray.sum(): Float {
    var sum: Float = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun DoubleArray.sum(): Double {
    var sum: Double = 0
    for (element in this) {
        sum += element
    }
    return sum
}

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib/

import kotlin.random.

/**
 * Returns a random element from this range.
 */
public fun IntRange.random(): Int {
    return random(Random)
}

/**
 * Returns a random element from this range.
 */
public fun LongRange.random(): Long {
    return random(Random)
}

/**
 * Returns a random element from this range.
 */
public fun CharRange.random(): Char {
    return random(Random)
}

/**
 * Returns a random element from this range using the specified source of randomness.
 */
public fun IntRange.random(random: Random): Int {
    try {
        return random.nextInt(this)
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from this range using the specified source of randomness.
 */
public fun LongRange.random(random: Random): Long {
    try {
        return random.nextLong(this)
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from this range using the specified source of randomness.
 */
public fun CharRange.random(random: Random): Char {
    try {
        return random.nextInt(first.toInt(), last.toInt() + 1).toChar()
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from this range, or `null` if this range is empty.
 */
public fun IntRange.randomOrNull(): Int? {
    if (isEmpty())
        return null
    return random.nextInt(this)
}

/**
 * Returns a random element from this range, or `null` if this range is empty.
 */
public fun LongRange.randomOrNull(): Long? {
    if (isEmpty())
        return null
    return random.nextLong(this)
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
public fun CharRange.randomOrNull(): Char? {
    if (isEmpty())
        return null
    return random.nextInt(first.toInt(), last.toInt() + 1).toChar()
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
public fun IntRange.randomOrNull(random: Random): Int? {
    if (isEmpty())
        return null
    return random.nextInt(this)
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
public fun LongRange.randomOrNull(random: Random): Long? {
    if (isEmpty())
        return null
    return random.nextLong(this)
}
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")

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---

```kotlin
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@kotlin.jvm.JvmName("longRangeContains")
public operator fun ClosedRange<Long>.contains(value: Float): Boolean {
    return value.toLongExactOrNull().let { if (it != null) contains(it) else false }
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("byteRangeContains")
public operator fun ClosedRange<Byte>.contains(value: Float): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("shortRangeContains")
public operator fun ClosedRange<Short>.contains(value: Float): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Float): Boolean {
    return contains(value.toDouble())
}
```

---

```kotlin
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@kotlin.jvm.JvmName("longRangeContains")
public operator fun ClosedRange<Long>.contains(value: Int): Boolean {
    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("byteRangeContains")
public operator fun ClosedRange<Byte>.contains(value: Int): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("shortRangeContains")
public operator fun ClosedRange<Short>.contains(value: Int): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }
}
```

---

```kotlin
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Int): Boolean {
    return contains(value.toDouble())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Int): Boolean {
    return contains(value.toFloat())
}
```

---

```kotlin
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@kotlin.jvm.JvmName("intRangeContains")
public operator fun ClosedRange<Int>.contains(value: Long): Boolean {
    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun ClosedRange<Long>.contains(value: Short): Boolean {
    return contains(value.toLong())
}
```

---

```kotlin
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@kotlin.jvm.JvmName("byteRangeContains")
public operator fun ClosedRange<Byte>.contains(value: Long): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("shortRangeContains")
public operator fun ClosedRange<Short>.contains(value: Long): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }
}
```

---

```kotlin
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Long): Boolean {
    return contains(value.toDouble())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Long): Boolean {
    return contains(value.toFloat())
}
```

---

```kotlin
@kotlin.jvm.JvmName("intRangeContains")
public operator fun ClosedRange<Int>.contains(value: Short): Boolean {
    return contains(value.toInt())
}
```

---

```kotlin
@kotlin.jvm.JvmName("longRangeContains")
public operator fun ClosedRange<Long>.contains(value: Short): Boolean {
    return contains(value.toLong())
}
```

---

```kotlin
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Short): Boolean {
    return contains(value.toDouble())
}
```

---

```kotlin
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Short): Boolean {
    return contains(value.toFloat())
}
```

---

```kotlin
@kotlin.jvm.JvmName("intRangeContains")
public operator fun ClosedRange<Int>.contains(value: Short): Boolean {
    return contains(value.toInt())
}
```

---

```kotlin
@kotlin.jvm.JvmName("longRangeContains")
public operator fun ClosedRange<Long>.contains(value: Short): Boolean {
    return contains(value.toLong())
}
```

---

```kotlin
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Short): Boolean {
    return contains(value.toDouble())
}
```

---

```kotlin
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Short): Boolean {
    return contains(value.toFloat())
}
```
the specified [value] belongs to this range.
*/
@kotlin.jvm.JvmName("byteRangeContains")
public operator fun ClosedRange<Byte>.contains(value: Short): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
} * Checks if the specified [value] belongs to this range.
*/
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Short): Boolean {
    return contains(value.toDouble())
} * Checks if the specified [value] belongs to this range.
*/
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Short): Boolean {
    return contains(value.toFloat())
} * Checks if the specified [value] belongs to this range.
*/

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 */
public infix fun Int.downTo(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
} * The [to] value should be less than or equal to `this` value.
* If the [to] value is greater than `this` value the returned progression is empty.
*/
@public infix fun Int.downTo(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
} * The [to] value should be less than or equal to `this` value.
* If the [to] value is greater than `this` value the returned progression is empty.
*/
@public infix fun Int.downTo(to: Int): IntProgression {
    return IntProgression.fromClosedRange(this, to, -1)
} * The [to] value should be less than or equal to `this` value.
* If the [to] value is greater than `this` value the returned progression is empty.
*/
@public infix fun Int.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this, to, -1L)
} * The [to] value should be less than or equal to `this` value.
* If the [to] value is greater than `this` value the returned progression is empty.
*/
@public infix fun IntProgression.fromClosedRange(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(to.toInt(), -1)
} * Checks if the specified [value] belongs to this range.
*/
@public infix fun IntProgression.fromClosedRange(to: Int): IntProgression {
    return IntProgression.fromClosedRange(to, -1)
} * Checks if the specified [value] belongs to this range.
*/
@public infix fun IntProgression.fromClosedRange(to: Long): IntProgression {
    return IntProgression.fromClosedRange(to, -1L)
} * Checks if the specified [value] belongs to this range.
* The [to] value should be less than or equal to `this` value.

* If the [to] value is greater than `this` value the returned progression is empty.

* If the [to] value is greater than `this` value the returned progression is empty.

* If the [to] value is greater than `this` value the returned progression is empty.

* If the [to] value is greater than `this` value the returned progression is empty.

```kotlin
public infix fun Byte.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Short.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Int.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), to.toLong(), -1L)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Byte.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Short.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun IntProgression.reversed(): IntProgression {
    return IntProgression.fromClosedRange(last, first, -step)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun LongProgression.reversed(): LongProgression {
    return LongProgression.fromClosedRange(last, first, -step)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun CharProgression.reversed(): CharProgression {
    return CharProgression.fromClosedRange(last, first, -step)
}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun IntProgression.step(step: Int): IntProgression {
    checkStepIsPositive(step > 0, step)
    return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun LongProgression.step(step: Long): LongProgression {
    checkStepIsPositive(step > 0, step)
    return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun CharProgression.step(step: Int): CharProgression {
    checkStepIsPositive(step > 0, step)
    return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}
```

---

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[to] value is less than or equal to 'this' value, then the returned range is empty.
*/
public infix fun Int.until(to: Short): IntRange {
    return this .. (to.toInt() - 1).toInt()
}

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to 'this' value, then the returned range is empty.
 */
public infix fun Long.until(to: Short): LongRange {
    return this .. (to.Long().toLong() - 1).toLong().toInt() * \n
    // Ensures that this value is not less than the specified [minimumValue].
    // @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
    // @sample samples.comparisons.ComparableOps.coerceAtLeast
*/
public fun Byte.coerceAtLeast(minimumValue: Byte): Byte {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
*/
public fun Long.coerceAtMost(maximumValue: Long): Long {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
*/
public fun Float.coerceAtMost(maximumValue: Float): Float {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
*/
public fun Double.coerceAtMost(maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue else this
}
[maximumValue] or the [maximumValue] otherwise.

```java
public fun Int.coerceAtMost(maximumValue: Int): Int {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun Long.coerceAtMost(maximumValue: Long): Long {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun Float.coerceAtMost(maximumValue: Float): Float {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun Double.coerceAtMost(maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceInComparable
 */
public fun <T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {
    if (minimumValue !== null && maximumValue !== null) {
        if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.
```}

```java
    if (minimumValue !== null && this < minimumValue) return minimumValue
    if (maximumValue !== null && this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceInComparable
 */
public fun Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.
```}

```java
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceInComparable
 */
public fun Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.
```}

```java
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceInComparable
 */
public fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.
```}

```java
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceInComparable
 */
public fun Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.
```}

```java
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}
```

---

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throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
   if (this < minimumValue) return minimumValue
   if (this > maximumValue) return maximumValue
   return this
}

Ensures that this value lies in the specified range [minimumValue, maximumValue].
   if (this < minimumValue) @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].

@sample samples.comparisons.ComparableOps.coerceIn()

/*
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 *
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 */

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package kotlin

import
A constant holding the minimum value an instance of UByte can have.

A constant holding the maximum value an instance of UByte can have.

The number of bytes used to represent an instance of UByte in a binary form.

The number of bits used to represent an instance of UByte in a binary form.

Returns zero if this value is equal to the specified other value, a negative number if it’s less than other,

or a positive number if it’s greater than other.

Returns zero if this value is equal to the specified other value, a negative number if it’s less than other,

or a positive number if it’s greater than other.

Returns zero if this value is equal to the specified other value, a negative number if it’s less than other,

or a positive number if it’s greater than other.

Returns zero if this value is equal to the specified other value, a negative number if it’s less than other,

or a positive number if it’s greater than other.
value represents the same numerical value as this 'UByte'.

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt> {

    companion object {
        /**
         * A constant holding the minimum value an instance of UInt can have.
         */
        public const val MIN_VALUE: UInt = UInt(0)

        /**
         * A constant holding the maximum value an instance of UInt can have.
         */
        public const val MAX_VALUE: UInt = UInt(-1)

        /**
         * The number of bytes used to represent an instance of UInt in a binary form.
         */
        public const val SIZE_BYTES: Int = 4

        /**
         * The number of bits used to represent an instance of UInt in a binary form.
         */
        public const val SIZE_BITS: Int = 32
    }

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline fun plus(other: UInt): UInt = this.plus(other.toUInt())
    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline fun plus(other: UByte): UInt = this.plus(other.toUInt())
    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline fun plus(other: UShort): UInt = this.plus(other.toUInt())
    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline fun plus(other: ULong): UInt = this.plus(other.toUInt())
}
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UInt): UInt =
    UInt(this.data.plus(other.data))
    /** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: ULong): ULong =
    this.toULong().plus(other)
    /** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UByte): UInt =
    this.minus(other.toUInt())
    /** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UShort): UInt =
    this.minus(other.toUInt())
    /** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UInt): UInt =
    UInt(this.data.minus(other.data))
    /** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: ULong): ULong =
    this.toULong().minus(other)
    /** Subtracts the other value from this value. */
public inline operator fun times(other: UByte): UInt =
    this.times(other.toUInt())
    /** Multiplies this value by the other value. */
public inline operator fun times(other: UShort): UInt =
    this.times(other.toUInt())
    /** Multiplies this value by the other value. */
public inline operator fun times(other: UInt): UInt =
    UInt(this.data.times(other.data))
    /** Multiplies this value by the other value. */
public inline operator fun times(other: ULong): ULong =
    this.toULong().times(other)
    /** Multiplies this value by the other value. */
public inline operator fun div(other: UByte): UInt =
    this.div(other.toUInt())
    /** Divides this value by the other value. */
public inline operator fun div(other: UShort): UInt =
    this.div(other.toUInt())
    /** Divides this value by the other value. */
public inline operator fun div(other: UInt): UInt =
    uintDivide(this, other)
    /** Divides this value by the other value. */
public inline operator fun div(other: ULong): ULong =
    this.toULong().div(other)
    /** Divides this value by the other value. */
public inline operator fun rem(other: UByte): UInt =
    this.rem(other.toUInt())
    /** Calculates the remainder of dividing this value by the other value. */
public inline operator fun rem(other: UShort): UInt =
    this.rem(other.toUInt())
    /** Calculates the remainder of dividing this value by the other value. */
public inline operator fun rem(other: UInt): UInt =
    uintRemainder(this, other)
    /** Calculates the remainder of dividing this value by the other value. */
public inline operator fun rem(other: ULong): ULong =
    this.toULong().rem(other)
    /** Calculates the remainder of dividing this value by the other value. */
public inline operator fun inc(): UInt =
    UInt(data.inc())
    /** Increments this value. */
public inline operator fun dec(): UInt =
    UInt(data.dec())
    /** Decrements this value. */
public inline operator fun rangeTo(other: UInt): UIntRange =
    UIntRange(this, other)
    /** Creates a range from this value to the specified value. */
public inline operator fun shl(bitCount: Int): UInt =
    UInt(data shl bitCount)
    /** Shifts this value left by the [bitCount] number of bits. */
public inline operator fun shr(bitCount: Int): UInt =
    UInt(data ushr bitCount)
    /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */
public inline operator fun and(other: UInt): UInt =
    UInt(this.data and other.data)
    /** Performs a bitwise AND operation between the two values. */
public inline operator fun or(other: UInt): UInt =
    UInt(this.data or other.data)
    /** Performs a bitwise OR operation between the two values. */
public inline operator fun xor(other: UInt): UInt =
    UInt(this.data xor other.data)
    /** Performs a bitwise XOR operation between the two values. */
public inline operator fun shl(bitCount: Int): UInt =
    UInt(data shl bitCount)
    /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */
public inline operator fun shr(bitCount: Int): UInt =
    UInt(data ushr bitCount)
    /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */
public inline operator fun and(other: UInt): UInt =
    UInt(this.data and other.data)
    /** Performs a bitwise AND operation between the two values. */
public inline operator fun or(other: UInt): UInt =
    UInt(this.data or other.data)
    /** Performs a bitwise OR operation between the two values. */
public inline operator fun xor(other: UInt): UInt =
    UInt(this.data xor other.data)
    /** Performs a bitwise XOR operation between the two values. */

value is represented by the least significant 16 bits of this `UInt` value.\n
* Note that the resulting `Short` value may be negative.\n
*\n
@kotlin.internal.InlineOnly
@public inline fun toShort(): Short = data.toShort()\n
/**\n * Converts this [UInt] value to [Int].\n
*\n
* If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\n * the same numerical value as this `UInt`. Otherwise the result is negative.\n
*\n
* The resulting `Int` value has the same binary representation as this `UInt` value.\n
*\n
@kotlin.internal.InlineOnly
@public inline fun toInt(): Int = data\n
/**\n * Converts this [UInt] value to [Long].\n
*\n
* The resulting `Long` value represents the same numerical value as this `UInt`.\n
*\n
* The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value, whereas the most significant 32 bits are filled with zeros.\n
*\n
@kotlin.internal.InlineOnly
@public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF\n
/**\n * Converts this [UInt] value to [UByte].\n
*\n
* If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `UInt`.\n
*\n
* The resulting `UByte` value is represented by the least significant 8 bits of this `UInt` value.\n
*\n
@kotlin.internal.InlineOnly
@public inline fun toUByte(): UByte = data.toUByte()\n
/**\n * Converts this [UInt] value to [UShort].\n
*\n
* If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `UInt`.\n
*\n
* The least significant 32 bits of the resulting `UShort` value are the same as the bits of this `UInt` value, whereas the most significant 32 bits are filled with zeros.\n
*\n
@kotlin.internal.InlineOnly
@public inline fun toUShort(): UShort = data.toUShort()\n
/** Returns this value.\n
*\n
@kotlin.internal.InlineOnly
@public inline fun toUInt(): UInt = this\n
/**\n * Converts this [UInt] value to [ULong].\n
*\n
* The resulting `ULong` value represents the same numerical value as this `UInt`.\n
*\n
* The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value, whereas the most significant 32 bits are filled with zeros.\n
*\n
@kotlin.internal.InlineOnly
@public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)\n
/*\n * Converts this [UInt] value to [Float].\n
*\n
* The resulting value is the closest `Float` to this `UInt` value. In case when this `UInt` value is exactly between two `Float`’s, the one with zero at least significant bit of mantissa is selected.\n
*\n
@kotlin.internal.InlineOnly
@public inline fun toFloat(): Float = this.toDouble().toFloat()\n
/**\n * Converts this [UInt] value to [Double].\n
*\n
* The resulting `Double` value represents the same numerical value as this `UInt`.\n
*\n
* The least significant 8 bits of the resulting `Byte` value are the same as the bits of this `Byte` value, whereas the most significant 24 bits are filled with the sign bit of this value.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Byte.toUInt(): UInt = UInt(this.toInt())\n
/**\n * Converts this [Short] value to [UInt].\n
*\n
* If this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.\n
*\n
* The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value, whereas the most significant 16 bits are filled with the sign bit of this value.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Short.toUInt(): UInt = UInt(this.toInt())\n
/**\n * Converts this [Int] value to [UInt].\n
*\n
* If this value is positive, the resulting `UInt` value represents the same numerical value as this `Int`.\n
*\n
* The resulting `UInt` value has the same binary representation as this `Int` value.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Int.toUInt(): UInt = UInt(this)\n
/**\n * Converts this [Long] value to [UInt].\n
*\n
* If this value is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents the same numerical value as this `Long`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Long.toUInt(): UInt = UInt(this)\n
/**\n * Converts this [Float] value to [UInt].\n
*\n
* The fractional part, if any, is rounded down towards zero.\n
* Returns zero if this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it’s bigger than `UInt.MAX_VALUE`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Float.toUInt(): UInt = Uint(this)\n
/**\n * Converts this [Double] value to [UInt].\n
*\n
* The fractional part, if any, is rounded down towards zero.\n
* Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it’s bigger than `UInt.MAX_VALUE`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Double.toUInt(): UInt = Uint(this)\n
/**\n * Converts this [ULong] value to [UInt].\n
*\n
* The resulting `UInt` value represents the same numerical value as this `ULong`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.toUInt(): UInt = UInt(this)\n
/**\n * Converts this [Float] value to [UInt].\n
*\n
* The fractional part, if any, is rounded down towards zero.\n
* Returns zero if this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it’s bigger than `UInt.MAX_VALUE`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Float.toUInt(): UInt = Uint(this)\n
/**\n * Converts this [Double] value to [UInt].\n
*\n
* The fractional part, if any, is rounded down towards zero.\n
* Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it’s bigger than `UInt.MAX_VALUE`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Double.toUInt(): UInt = Uint(this)\n
/**\n * Converts this [ULong] value to [UInt].\n
*\n
* The resulting `UInt` value represents the same numerical value as this `ULong`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.toUInt(): UInt = UInt(this)\n
/**\n * Converts this [Float] value to [UInt].\n
*\n
* The fractional part, if any, is rounded down towards zero.\n
* Returns zero if this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it’s bigger than `UInt.MAX_VALUE`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Float.toUInt(): UInt = Uint(this)\n
/**\n * Converts this [Double] value to [UInt].\n
*\n
* The fractional part, if any, is rounded down towards zero.\n
* Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it’s bigger than `UInt.MAX_VALUE`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Double.toUInt(): UInt = Uint(this)\n
/**\n * Converts this [ULong] value to [UInt].\n
*\n
* The resulting `UInt` value represents the same numerical value as this `ULong`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.toUInt(): UInt = UInt(this)\n
/**\n * Converts this [Float] value to [UInt].\n
*\n
* The fractional part, if any, is rounded down towards zero.\n
* Returns zero if this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it’s bigger than `UInt.MAX_VALUE`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Float.toUInt(): UInt = Uint(this)\n
/**\n * Converts this [Double] value to [UInt].\n
*\n
* The fractional part, if any, is rounded down towards zero.\n
* Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it’s bigger than `UInt.MAX_VALUE`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun Double.toUInt(): UInt = Uint(this)\n
/**\n * Converts this [ULong] value to [UInt].\n
*\n
* The resulting `UInt` value represents the same numerical value as this `ULong`.\n
*\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@public inline fun ULong.toUInt(): UInt = UInt(this)
Float.toDouble(): UInt = doubleToUInt(this.toDouble()) /* @ExperimentalUnsignedTypes */

* An integer literal holding the maximum value an instance of UShort can have. *

*/

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())

/**
 * Converts this Double value to UInt.
 *
 * The fractional part, if any, is rounded down towards zero. *
 * Returns zero if this `Double` value is negative or `NaN`, *[UInt.MAX_VALUE]* if it's bigger than `UInt.MAX_VALUE`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Double.toUInt(): UInt = doubleToUInt(this)

"*/

/*
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 * Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be
 * found in the license/LICENSE.txt file. */

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UShort @PublishedApi internal constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {

    companion object {
        /**
         * A constant holding the minimum value an instance of UShort can have. *
         */
        public const val MIN_VALUE: UShort = UShort(0)

        /**
         * A constant holding the maximum value an instance of UShort can have. *
         */
        public const val MAX_VALUE: UShort = UShort(-1)

        /**
         * The number of bytes used to represent an instance of UShort in a binary form. *
         */
        public const val SIZE_BYTES: Int = 2

        /**
         * The number of bits used to represent an instance of UShort in a binary form. *
         */
        public const val SIZE_BITS: Int = 16
    }

    /**
     * Compares this value with the specified value for order. *
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, *
     * or a positive number if it's greater than other. *
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())

    /**
     * Compares this value with the specified value for order. *
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, *
     * or a positive number if it's greater than other. *
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UShort): Int = this.toUInt().compareTo(other.toUInt())

    /**
     * Compares this value with the specified value for order. *
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, *
     * or a positive number if it's greater than other. *
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())

    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other.toUInt())

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UInt): UInt = this.toUInt().times(other.toUInt())

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The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value.

The resulting `UInt` value represents the same numerical value as this `UShort`.

@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = this

/**
 * Converts this `UShort` value to `UByte`. The resulting `UByte` value
 * is represented by the least significant 8 bits of this `UShort` value.
 * Note that the resulting `UByte` value may be negative.
 * The result is negative if this value is less than or equals to [Byte.MAX_VALUE],
 * whereas the most significant 4 bits are filled with zeros.
 * The result is positive if this value is greater than or equals to [Byte.MIN_VALUE],
 * whereas the least significant 16 bits are filled with zeros.
 * The result is zero if this value is equal to [Byte.ZERO].
 */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()

/** Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public inline fun inv(): UShort = UShort(data.inv())

/** Performs a bitwise AND operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun and(other: UShort): UShort = UShort(this.data and other.data)

/** Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)

/** Performs a bitwise XOR operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)

/** Creates a range from this value to the specified other value. */
@kotlin.internal.InlineOnly
public inline operator fun rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())

/** Creates a range from this value to the specified other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong = this.toULong().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt = this.toUInt().div(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong = this.toULong().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt = this.toUInt().div(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong = this.toULong().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt = this.toUInt().div(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong = this.toULong().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt = this.toUInt().div(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong = this.toULong().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other)

/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt = this.toUInt().div(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other)
* whereas the most significant 16 bits are filled with zeros.

```
    @kotlin.internal.InlineOnly
    public inline
```

```
    fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)
    /**
     * Converts this [UShort] value to [ULong].
     * The resulting `ULong` value represents the same numerical value as this `UShort`.
     * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value.
     * whereas the most significant 48 bits are filled with zeros.
     */
    @kotlin.internal.InlineOnly
    public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)
    /**
     * Converts this [UShort] value to [Float].
     */
    @kotlin.internal.InlineOnly
    public inline fun toFloat(): Float = this.toInt().toFloat()
    /**
     * Converts this [UShort] value to [Double].
     */
    @kotlin.internal.InlineOnly
    public inline fun toDouble(): Double = this.toInt().toDouble()
```

```
    public override fun toString(): String = toInt().toString()
```

```
/**
 * Converts this [Byte] value to [UShort].
 *
 * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Byte`.
 * whereas the most significant 8 bits are filled with the sign bit of this value.

/*
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 */

// Auto-generated file. DO NOT EDIT!

package
```

```
val endInclusive: Long get() = last\n
override fun contains(value: Long): Boolean = first <= value && value <= last\n
override fun isEmpty(): Boolean = first > last\n
override fun equals(other: Any?): Boolean = other is LongRange && (isEmpty() && other.isEmpty() || first == other.first && last == other.last)\n
override fun hashCode(): Int = if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\n
override fun toString(): String = "$first..$last"

companion object {

/** An empty range of values of type Long. */
public val EMPTY: LongRange = LongRange(1, 0)\n
/*
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@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")\n
import kotlin.contracts.*

internal object EmptyIterator : ListIterator<Nothing> {
    override fun hasNext(): Boolean = false
    override fun hasPrevious(): Boolean = false
    override fun nextIndex(): Int = 0
    override fun previousIndex(): Int = -1
    override fun next(): Nothing = throw NoSuchElementException()
    override fun previous(): Nothing = throw NoSuchElementException()
}

internal object EmptyList : List<Nothing>, Serializable, RandomAccess {
    private const val serialVersionUID: Long = -7390468764508069838L\n
    override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()
    override fun hashCode(): Int = 1
    override fun toString(): String = "[]"

    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false
    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()

    override fun get(index: Int): Nothing = throw IndexOutOfBoundsException("Empty list doesn't contain element at index $index.")\n
    override fun iterator(): Iterator<Nothing> = EmptyIterator
    override fun listIterator(): ListIterator<Nothing> = EmptyIterator
    override fun listIterator(index: Int): ListIterator<Nothing> {
        if (index != 0) throw IndexOutOfBoundsException("Index: $index")
        return EmptyIterator
    }

    override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {
        if (fromIndex == 0 && toIndex == 0) return this
        throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex")
    }

    private fun readResolve(): Any = EmptyList
}

/**
 * Returns an empty read-only list.  The returned list is serializable (JVM).
 * @sample samples.collections.Collections.Lists.emptyReadOnlyList
 */
public fun <T> emptyList(): List<T> = EmptyList

/**
 * Returns a new read-only list of given elements.  The returned list is serializable (JVM).
 * @sample samples.collections.Collections.Lists.emptyListWithElements
 */
public fun <T> list<T>(elements: Collection<T>): List<T> = if (elements.isEmpty()) emptyList<T>() else elements.asList<T>()

/**
 * Returns an empty new MutableList.
 * @sample samples.collections.Collections.Lists.mutableList
 */
@SinceKotlin("1.1")
public inline fun <T> mutableListOf(): MutableList<T> = ArrayList()

/**
 * Returns a new ArrayList with the given elements.
 * @sample samples.collections.Collections.Lists.arrayListOf
 */
public fun <T> arrayListOf(vararg elements: T): ArrayList<T> = if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = false))
the empty list otherwise.

```kotlin
val@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()

val@SinceKotlin("1.3")\nval@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R =
    if (isEmpty()) defaultValue() else this

val@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases
val@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T>
    Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)

internal fun <T>
    List<T>.optimizeReadOnlyList() = when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else ->
            this
    }
```

```kotlin
/**
 * Searches this list or its range for the provided [element] using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements.
 * otherwise the result is undefined.
 * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.
 * *null* value is considered to be less than any non-null value.
 * @return the index of the element, if it is contained in the list within the specified range;
 * otherwise, the inverted insertion point `(-insertion point - 1)`.
 * The insertion point is defined as the index at which the element should be inserted,
 * so that the list (or the specified subrange of list) still remains sorted.
 * @sample samples.collections.Collections.Lists.optimizeReadOnlyList
 * @sample samples.collections.Collections.Lists.optimizeReadOnlyList
 */
public fun <T : Comparable<T>>
    List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {
    rangeCheck(size, fromIndex, toIndex)
    var low = fromIndex
    var high = toIndex - 1
    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparator.compare(midVal, element)
        if (cmp < 0) low = mid + 1
        else if (cmp > 0) high = mid - 1
        else return mid // key found
    }
    return -(low + 1)  // key not found
}
```

```kotlin
/**
 * Searches this list or its range for an element having the key returned by the specified [selector] function
 * equal to the provided [key] value using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.
 * otherwise the result is undefined.
 * If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.
 * *null* value is considered to be less than any non-null value.
 * @return the index of the element, if it is contained in the list within the specified range;
 * otherwise, the inverted insertion point `(-insertion point - 1)`.
 * The insertion point is defined as the index at which the element should be inserted,
 * so that the list (or the specified subrange of list) still remains sorted.
 * @sample samples.collections.Collections.Lists.optimizeReadOnlyList
 */
public fun <T>
    List<T>.binarySearchWithComparator(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {
    rangeCheck(size, fromIndex, toIndex)
    var low = fromIndex
    var high = toIndex - 1
    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparator.compare(midVal, element)
        if (cmp < 0) low = mid + 1
        else if (cmp > 0) high = mid - 1
        else return mid // key found
    }
    return -(low + 1)  // key not found
}
```
samples.collections.Collections.Lists.binarySearchByKey

```kotlin
/**
 * Searches this list or its range for an element for which the given [comparison] function returns zero using the binary search algorithm.
 * The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements, i.e. negative values come before zero and zeroes come before positive values. Otherwise, the result is undefined.
 * If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.
 * @param comparison function that returns zero when called on the list element being searched.
 * On the elements coming before the target element, the function must return negative values; on the elements coming after the target element, the function must return positive values.
 * @return the index of the found element, if it is contained in the list within the specified range; otherwise, the inverted insertion point (-insertion point - 1).
 * The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.
 * @sample samples.collections.Collections.Lists.binarySearchWithComparisonFunction
 */
public fun <T> List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {
    rangeCheck(size, fromIndex, toIndex)
    var low = fromIndex
    var high = toIndex - 1
    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparison(midVal)
        if (cmp < 0)
            low = mid + 1
        else if (cmp > 0)
            high = mid - 1
        else
            return mid // key found
    }
    return -(low + 1)  // key not found
}
```

```kotlin
/**
 * Checks that `from` and `to` are in the range of [0..size] and throws an appropriate exception, if they aren't.
 * @return an appropriate exception, if they aren't.
 */
private fun rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {
    when {
        fromIndex > toIndex -> throw IllegalArgumentException("fromIndex ($fromIndex) is greater than toIndex ($toIndex).")
        fromIndex < 0 -> throw IndexOutOfBoundsException("fromIndex ($fromIndex) is less than zero.")
        toIndex > size -> throw IndexOutOfBoundsException("toIndex ($toIndex) is greater than size ($size).")
    }
}
```

```kotlin
/**
 * Returns an empty read-only map of specified type.
 * The returned map is serializable (JVM).
 * @return an empty read-only map of specified type.
 */
public fun <K, V> emptyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K, V>)
```

```kotlin
/**
 * Returns a new read-only map with the specified contents, given as a list of pairs.
 * @return a new read-only map with the specified contents, given as a list of pairs.
 */
public fun <K, V> emptyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K, V>)
```
contain the value from the last of those pairs.

* Entries of the map are iterated in the order they were specified.
* The returned map is serializable (JVM).

samples.collections.Maps.Instantiation.mapFromPairs

/**
 * @sample
 * @sample
 * @sample
 * @sample
 * @sample
 */
public fun <K, V> mapOf(vararg pairs: Pair<K, V>):
Map<K, V> = if (pairs.size > 0) pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else
emptyMap()

/**
 * Returns an empty read-only map.
 * @sample
 */
public fun <K, V> mapOf(): Map<K, V> = emptyMap()

/**
 * Returns an empty new [MutableMap] with the specified contents, given as a list of pairs
 * where the first component is the key and the second is the value.
 * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.
 * Entries of the map are iterated in the order they were specified.
 */
public fun <K, V> mutableMapOf(vararg pairs: Pair<K, V>):
MutableMap<K, V> = LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }

/**
 * Returns an empty new [HashMap].
 */
public inline fun <K, V> hashMapOf(): HashMap<K, V> = HashMap<K, V>()

/**
 * Returns a new [LinkedHashMap] with the specified contents, given as a list of pairs
 * where the first component is the key and the second is the value.
 * Entries of the map are iterated in the order they were specified.
 */
public fun <K, V> linkedMapOf(vararg pairs: Pair<K, V>): LinkedHashMap<K, V> =
linkedMapOf(pairs)

/**
 * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction]
 * and returning a read-only map with the same key-value pairs.
 * Entries of the map are iterated in the order they were added by the [builderAction].
 */
public inline fun <K, V> buildMap(@BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {
    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
    return LinkedHashMap<K, V>().apply(builderAction)
}

/**
 * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction]
 * and returning a read-only map with the same key-value pairs.
 * The map passed as a receiver to the [builderAction] is valid only inside that function.
 * Entries of the map are iterated in the order they were added by the [builderAction].
 */
public inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {

contract {  
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)  
}  
checkBuilderCapacity(capacity)  
return LinkedHashMap<K, V>(mapCapacity(capacity)).apply(builderAction)  

/**  
* Calculates the initial capacity of a map.  
* @return the initial capacity of the map.  
* @throws IllegalArgumentException if the capacity is negative.  
*/  
@PublishedApi  
internal expect fun mapCapacity(expectedSize: Int): Int

/**  
* Checks a collection builder function capacity argument.  
*/  
@PublishedApi  
internal expect fun checkBuilderCapacity(capacity: Int)

/** Returns `true` if this map is not empty.  
*/  
@kotlin.internal.InlineOnly  
public inline fun <K, V> Map<K, V>.isEmpty(): Boolean =  
this == null || !isEmpty()  

/** Returns `true` if this nullable map is either null or empty.  
*/  
@SinceKotlin("1.3")  
@kotlin.internal.InlineOnly  
public inline fun <K, V> Optional<

Map<K, V>>?.isEmpty(): Boolean =  
isEmpty() || this@isNullOrEmpty == null  

/** Returns `true` if this map maps one or more keys to the specified value.  
*/  
@SinceKotlin("1.3")  
@kotlin.internal.InlineOnly  
this.containsValue(value)

/** Removes the specified key and its corresponding value from this map.  
* @return the previous value associated with the key, or `null` if the key  
* was not present in the map.  
*/  
@kotlin.internal.InlineOnly  
public inline fun <K, V> Map<K, V>.remove(key: K): V? =  
this.remove(key)
value)\n\n/**\n * Returns the value for the given key, or the result of the [defaultValue] function if there was no entry for the given key.\n * @sample samples.collections.Maps.Usage.getOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue\n
/**\n * Returns the value for the given key, or throws an exception if there is no such key in the map.\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key and\n */\n@SinceKotlin("1.1")\npublic fun <K, V> Map<K, V>.getValue(key: K): V = getOrImplicitDefault(key)\n
/**\n * Returns the value for the given key. If the key is not found in the map, calls the [defaultValue] function,\n * puts its result into the map under the given key and returns it.\n * Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.\n */\n@sample samples.collections.Maps.Usage.getOrPut\n
/**\n * Returns an [Iterator] over the entries in the [Map].\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map<out K, V>.iterator(): Iterator<

/**\n * Returns a [MutableIterator] over the mutable entries in the [MutableMap].\n */\n@kotlin.jvm.JvmName("mutableIterator")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> = entries.iterator()\n
/**\n * Populates the given [destination] map with entries having the keys of this map and the values obtained\n * by applying the [transform] function to each entry in this [Map].\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) -> V): M = entries.associateByTo(destination, it.key, transform)\n
/**\n * Returns a new map with entries having the keys of this map and the values obtained\n * by applying the [transform] function to each entry in this [Map].\n */\npublic inline fun <K, V, R> Map<out K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> = mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()
mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap(\n)\n/**
 * Returns a map containing all key-value pairs with keys matching the given [predicate].\n * The returned map preserves the entry iteration order of the original map.\n */ @sample samples.collections.Maps.Filtering.filterKeys\n
v
toMap(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap(\n)\n/**
 * Returns a map containing all key-value pairs with values matching the given [predicate].\n * The returned map preserves the entry iteration order of the original map.\n */ @sample samples.collections.Maps.Filtering.filterValues

\n*/

/**
 * Returns a map containing all key-value pairs matching the given [predicate].\n * The returned map preserves the entry iteration order of the original map.\n */ @sample samples.collections.Maps.Filtering.filterTo

\n*/

/**
 * Returns a new map containing all key-value pairs not matching the given [predicate].\n * The returned map preserves the entry iteration order of the original map.\n */ @sample samples.collections.Maps.Filtering.filterNot

\n*/

/**
 * Returns a new read-only

\n*/

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map containing all key-value pairs from the original.map
 The returned map preserves the entry iteration
order of the original.map

@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) {
    0 -> emptyMap()
    1 -> toSingletonMap()
    else -> toMutableMap()
}

/**
 * Creates a new read-only map by replacing or adding an entry to this map from a given key-value [pair].
 * The returned map preserves the entry iteration order of the original.map
 * The [pair] is iterated in the end if it has a unique key.
    if (this.isEmpty())
        mapOf(pair.first, pair.second)
    else
        LinkedHashMap(this).apply { put(pair.first, pair.second) }

/**
 * Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].
 * The returned map preserves the entry iteration order of the original.map
 * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.
    destination.apply { putAll(this@toMap) }

/**
 * Creates a new read-only map by replacing or adding entries to this map from a given map.
 * The returned map preserves the entry iteration order of the original.map
 * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.
    LinkedHashMap(this).apply { putAll(map) }

/**
 * Creates a new read-only map by replacing or adding entries to this map from another [map].
 * The returned map preserves the entry iteration order of the original.map
 * Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].
 * populated function <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =
    LinkedHashMap(this).apply { putAll(map) }

/**
 * Appends or replaces the given [pair] in this mutable.map
 * populated function <K, V> MutableMap<in K, V>.plusAssign(pair: Pair<K, V>):
    { put(pair.first, pair.second) }

/**
 * Appends or replaces all pairs from the given collection of [pairs] in this mutable.map
    { putAll(pairs) }

/**
 * Appends or replaces all entries from the given [map] in this mutable.map
 * populated function <K, V> MutableMap<in K, V>.plusAssign(map: Map<K, V>):
    { putAll(map) }

/**
 * Minus a given [key] from this map.
 * populated function <K, V>MutableMap<in K, V>.minus(key: K):
    { this.toMutableMap().apply { minusAssign(key) } }

/**
 * Minus a given [key] from this map.
 * populated function <K, V>MutableMap<in K, V>.minus(key: K):
    { this.toMutableMap().apply { minusAssign(key) } }

/**
 * Minus a given [key] from this map.
 * populated function <K, V>MutableMap<in K, V>.minus(key: K):
    { this.toMutableMap().apply { minusAssign(key) } }

/**
 * Minus a given [key] from this map.
 * populated function <K, V>MutableMap<in K, V>.minus(key: K):
* the keys of which are contained in the given [keys] array.

* The returned map preserves the entry iteration order of the original map.

* It returns a map containing all entries of the original map except those entries
  * the keys of which are contained in the given [keys] sequence.

* The returned map preserves the entry iteration order of the original map.

* It removes the entry with the given [key] from this mutable map.

* It removes all entries the keys of which are contained in the given [keys] collection from this mutable map.

* It removes all entries the keys of which are contained in the given [keys] array from this mutable map.

* It removes all entries the keys of which are contained in the given [keys] sequence from this mutable map.

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* The returned set is serializable (JVM).

* The returned set is serializable (JVM).

* Returns an empty read-only set. The returned set is serializable (JVM).

* Returns a new read-only set with the given elements.

* Returns a new read-only set with the given elements.

* Returns a new read-only set with the given elements.

* Returns a new read-only set with the given elements.

* Returns an empty read-only set. The returned set is serializable (JVM).

* Returns a new mutable set with the given elements.

* Elements of the set are iterated in the order they were specified.

* The returned set is serializable (JVM).

* Returns an empty new [MutableSet] with the given elements.

* The returned set preserves the element iteration order.

* Returns a new [MutableSet] with the given elements.

* Elements of the set are iterated in the order they were specified.

* Returns a new [MutableSet] with the given elements.

* Returns a new [MutableSet] with the given elements.

* Returns a new [MutableSet] with the given elements.
```kotlin
T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))

/**
 * Returns an empty new [LinkedHashSet].
 * @sample samples.collections.Collections.Sets.emptyLinkedHashSet
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> linkedSetOf(): LinkedHashSet<T> = LinkedHashSet()

/**
 * Returns a new [LinkedHashSet] with the given elements.
 * @sample samples.collections.Collections.Sets.linkedHashSet
 */
public fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> =
    elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))

/**
 * Builds a new read-only [Set] by populating a [MutableSet] using the given
 * [builderAction] and returning a read-only set with the same elements.
 * The set passed as a receiver to the [builderAction] is valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 * [capacity] is used to hint the expected number of elements added in the
 * [builderAction]. Elements of the set are iterated in the order they were added by the
 * [builderAction].
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {
    checkBuilderCapacity(capacity)
    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) } return
    LinkedHashSet<E>(mapCapacity(capacity)).apply(builderAction)
}

/** Returns this Set if it's not `null` and
 * the empty set otherwise. */
@kotlin.internal.InlineOnly
public inline fun <T> Set<T>?.orEmpty(): Set<T> = this ?: emptySet()

internal fun <T> Set<T>.optimizeReadOnlySet() = when (size) {
    0 -> emptySet()
    1 -> setOf(iterator().next())
    else -> this
}
```

---

```
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
@file:Suppress("PLATFORM_CLASS_MAPPED_TO_KOTLIN")

package kotlin.text

/**
 * Parses the string as a signed [Byte]
 * number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)

/**
 * Parses the string as a signed [Byte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
 * conversion.
 */
@SinceKotlin("1.1")
public fun String.toByteOrNull(radix: Int): Byte? {
    val int =
        this.toIntOrNull(radix) ?: return null
    if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null
    return int.toByte()
}

/**
 * Parses the string as a [Short] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)

/**
 * Parses the string as a [Short] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
 * conversion.
 */
@SinceKotlin("1.1")
public fun String.toShortOrNull(radix: Int): Short? {
    return null
}

/**
 * Parses the string as an [Int] number and
 * returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)

/**
 * Parses the string as an [Int] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
 * conversion.
 */
@SinceKotlin("1.1")
public fun String.toIntOrNull(radix: Int): Int? {
    return null
}
```

---

```
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
@file:Suppress("PLATFORM_CLASS_MAPPED_TO_KOTLIN")

package kotlin.text

/**
 * Parses the string as a signed [Byte]
 * number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)

/**
 * Parses the string as a signed [Byte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
 * conversion.
 */
@SinceKotlin("1.1")
public fun String.toByteOrNull(radix: Int): Byte? {
    val int =
        this.toIntOrNull(radix) ?: return null
    if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null
    return int.toByte()
}

/**
 * Parses the string as a [Short] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)

/**
 * Parses the string as a [Short] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
 * conversion.
 */
@SinceKotlin("1.1")
public fun String.toShortOrNull(radix: Int): Short? {
    return null
}

/**
 * Parses the string as an [Int] number and
 * returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)

/**
 * Parses the string as an [Int] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
 * conversion.
 */
@SinceKotlin("1.1")
public fun String.toIntOrNull(radix: Int): Int? {
    return null
}
```
```kotlin
divisor: if divisor < 2^63 then if (dividend >= 0) { return ULong(dividend % divisor) 
else { v1 - v2 // dividend >= divisor 
}

else { v1 - v2 // dividend >= divisor 
}

// Otherwise, approximate the quotient, check, and correct if necessary.
val quotient = ((dividend ushr 1) / divisor) shl 1
val rem = dividend - quotient * divisor
return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0) 

// Optimization - use signed modulus if both dividend and divisor < 2^63

if (dividend >= 0) {
    return UInt.MIN_VALUE.toDouble() - UInt.MIN_VALUE
}

else {
    return UInt.MIN_VALUE.toDouble() + UInt.MIN_VALUE
}

// Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not representable in Double, so don't handle them.
else -> (v - 9223372036854775808).toDouble(), toULong() + 9223372036854775808 // MAX_LONG_VALUE + 1 < v < ULong.MAX_VALUE.toDouble()


@PublishedApi
internal fun doubleToUInt(v: Double): UInt = when {
    v.isNaN() -> 0u
    v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE
    v >= UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE
    v < Int.MAX_VALUE -> v.toInt().toUInt()
    else -> (v - Int.MAX_VALUE).toInt() + Int.MAX_VALUE.toUInt() // Int.MAX_VALUE < v < Int.MAX_VALUE
}

@PublishedApi
internal fun doubleToULong(v: Double): ULong = when {
    v.isNaN() -> 0u
    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE
    v >= ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE
    v < Long.MAX_VALUE ->
        v.toLong(), toULong()
        // Int.MAX_VALUE < v < ULong.MAX_VALUE

    // Otherwise, approximate the quotient, check, and correct if necessary.
    val quotient = ((dividend ushr 1) / divisor) shl 1
    val rem = dividend - quotient * divisor
    return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)
}

@PublishedApi
internal fun uintToDouble(v: Int): Double = if (v >= Int.MAX_VALUE) { return v.toDouble() * 2 + 1 - Int.MAX_VALUE.toDouble() - Int.MAX_VALUE
}

@PublishedApi
internal fun ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)

internal fun ulongToString(v: Long): String = ulongToString(v, 10)

internal fun ulongToString(v: Long, base: Int): String {
    if (v >= 0) return v.toString(base)
    var quotient = ((v ushr 1) / base) shl 1
    var rem = v - quotient * base
    if (rem >= base) {
        rem -= base
        quotient += 1
    }
    return quotient.toString(base) + rem.toString(base)
}
```

---

```kotlin
/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

package kotlin.collections

/**
 * Given an [iterator] function constructs an [Iterable] instance that returns values through the [Iterator] it * provides by that function.
 */
@PublishedApi
internal fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T> = object : Iterable<T> {
    override fun iterator(): Iterator<T> = iterator()
}

/**
 * A wrapper over another [Iterable] (or any other object that can produce an [Iterator]) that returns an indexing iterator.
 */
internal class IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {
    override fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())
}

/**
 * Returns a single list of all elements from all collections in the given collection.
 */
public fun <T> Iterable<Iterable<T>>.flatten(): List<T> {
    val result = ArrayList<T>()
    for (element in this) {
        result.addAll(element)
    }
    return result
}
```
collection
* *second* list is built from the second values of each pair from this collection.

samples.collections.Iterables.Operations.unzipIterable
* @param public fun <T, R> iterable<Pair<T, R>>.unzip():
Pair<List<T>, List<R>>

val expectedSize = collectionSizeOrDefault(10)
val listT = ArrayList<T>(expectedSize)
val listR = ArrayList<R>(expectedSize)
for (pair in this) {
    listT.add(pair.first)
    listR.add(pair.second)
}
return listT to listR
/** *
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
* @file:kotlin.jvm.JvmMultifileClass
* @file:kotlin.jvm.JvmName("SequencesKt")
* @package
collection
* *second* list is built from the second values of each pair from this collection.
* @sample
samples.collections.Iterables.Operations.unzipIterable
*/
public fun <T, R> Iterable<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {
    val expectedSize = collectionSizeOrDefault(10)
    val listT = ArrayList<T>(expectedSize)
    val listR = ArrayList<R>(expectedSize)
    for (pair in this) {
        listT.add(pair.first)
        listR.add(pair.second)
    }
    return listT to listR
}
```kotlin
sequence.iterator()
var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration
var nextItem: T? = null
private fun drop() {
    while (iterator.hasNext()) {
        val item = iterator.next()
        if (!predicate(item)) {
            nextItem = item
            dropState = 1
            return
        }
    }
    dropState = 0
}

override fun next(): T {
    if (dropState == -1)
        drop()

    if (dropState == 1) {
        @Suppress("UNCHECKED_CAST")
        val result = nextItem as T
        nextItem = null
        dropState = 0
        return result
    }
    return iterator.next()
}

override fun hasNext(): Boolean {
    if (dropState == -1)
        drop()
    return dropState == 1 || iterator.hasNext()
}

internal class DistinctSequence<T, K>(private val source: Sequence<T>,
private val keySelector: (T) -> K) : Sequence<T> {
    override fun iterator(): Iterator<T> = DistinctIterator(source.iterator(), keySelector)
}

private class DistinctIterator<T, K>(private val source: Iterator<T>,
private val keySelector: (T) -> K) : AbstractIterator<T>() {
    private val observed = HashSet<K>()

    override fun computeNext() {
        while (source.hasNext()) {
            val next = source.next()
            val key = keySelector(next)
            if (observed.add(key)) {
                setNext(next)
                return
            }
        }
        done()
    }
}

private class GeneratorSequence<T : Any>(private val
getInitialValue: () -> T?,
private val getNextValue: (T) -> T?) : Sequence<T> {
    override fun iterator(): Iterator<T> = object : Iterator<T> {
        var nextItem: T? = null
        var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue
private fun calcNext() {
    nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!!)
    nextState = if (nextItem == null) 0 else 1
    if (nextState == 0)
        throw NoSuchElementException()
    val result = nextItem as T
    // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue
    nextState = -1
    return result
}

override fun hasNext(): Boolean {
    if (nextState < 0)
        calcNext()
    return nextState == 1
}
}

/**
 * Returns a wrapper sequence that provides values of this sequence, but ensures it can be iterated only one time.
 * The operation is _intermediate_ and _stateless_.
 * An _IllegalStateException_ is thrown on iterating the returned sequence from the second time.
 * `null` values are allowed in the returned sequence.
 * The sequence is constrained to be iterated only once.
 */
public fun <T> Sequence<T>.constrainOnce(): Sequence<T> {
    return if (this is ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)
}

/**
 * Returns a sequence which invokes the function to calculate the next value on each iteration until the function returns `null`.
 * The returned sequence is constrained to be iterated only once.
 */
public fun <T : Any> generateSequence(seed: T?,
nextFunction: (T) -> T?): Sequence<T> = GeneratorSequence(seed, seed, seed)

/**
 * Returns a sequence defined by the function `seedFunction`, which is invoked to produce the starting value,
 * and the `nextFunction`, which is invoked to calculate the next value based on the previous one on each iteration.
 * `null` values are produced until the function encounters first `null` value.
 * The sequence can be iterated multiple times, each time starting with `seed`.
 */
public fun <T : Any, S> generateSequenceWithSeed(seed: S,
seedFunction: () -> S,
nextFunction: (S) -> S): Sequence<S> = GeneratorSequenceWithSeed(seed, seed, seed)
```
GeneratorSequence(seedFunction, nextFunction)\n
"/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("PreconditionsKt")

package kotlin

import kotlin.contracts.contract

/**
 * Throws an [IllegalArgumentException] if the [value] is false.\n */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean): Unit {
    contract {
        returns() implies value\n    }
    require(value) { "Failed requirement." }
}

/**
 * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false.\n */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value\n    }
    if (!value) {
        val message = lazyMessage()\n        throw IllegalArgumentException(message.toString())\n    }
}

/**
 * Throws an [IllegalArgumentException] if the [value] is null. Otherwise returns the not null value.\n */
@kotlin.internal.InlineOnly
public inline fun requireNotNull(value: T?): T {
    contract {
        returns() implies (value != null)\n    }
    return requireNotNull(value) { "Required value was null." }
}

/**
 * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is null. Otherwise returns the not null value.\n */
@kotlin.internal.InlineOnly
public inline fun requireNotNull(value: T?, lazyMessage: () -> Any): T {
    contract {
        returns() implies (value != null)\n    }
    if (value == null) {
        val message = lazyMessage()\n        throw IllegalArgumentException(message.toString())\n    } else {
        return value
    }
}

/**
 * Throws an [IllegalStateException] if the [value] is false.\n */
@kotlin.internal.InlineOnly
public inline fun check(value: Boolean): Unit {
    contract {
        returns() implies value\n    }
    check(value) { "Check failed." }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n */
@kotlin.internal.InlineOnly
public inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value\n    }
    if (!value) {
        val message = lazyMessage()\n        throw IllegalStateException(message.toString())\n    }
}

/**
 * Throws an [IllegalStateException] if the [value] is null. Otherwise returns the not null value.\n */
@kotlin.internal.InlineOnly
public inline fun checkNotNull(value: T?): T {
    contract {
        returns() implies (value != null)\n    }
    return checkNotNull(value) { "Required value was null." }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise returns the not null value.\n */
@kotlin.internal.InlineOnly
public inline fun checkNotNull(value: T?, lazyMessage: () -> Any): T {
    contract {
        returns() implies (value != null)\n    }
    if (value == null) {
        val message = lazyMessage()\n        throw IllegalStateException(message.toString())\n    } else {
        return value
    }
}

/**
 * Throws an [IllegalStateException] with the given [message].\n */
@kotlin.internal.InlineOnly
public inline fun error(message: Any): Nothing = throw IllegalStateException(message.toString())

package kotlin.collections

//
// NOTE: THIS FILE IS AUTO-GENERATED
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.js.*
import primitiveArrayConcat
import withType
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */
public actual fun <T> Array<out T>.elementAt(index: Int): T {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */
public actual fun <T> Array<out T>.elementAtOrElse(index: Int, block: () -> T): T {
    return elementAtOrElse(index, block) { throw IndexOutOfBoundsException("index: $index") }
}

package kotlin

import kotlin.contracts.contract

/**
 * Throws an [IllegalArgumentException] if the [value] is false.\n */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean): Unit {
    contract {
        returns() implies value\n    }
    require(value) { "Failed requirement." }
}

/**
 * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false.\n */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value\n    }
    if (!value) {
        val message = lazyMessage()\n        throw IllegalArgumentException(message.toString())\n    }
}

/**
 * Throws an [IllegalArgumentException] if the [value] is null. Otherwise returns the not null value.\n */
@kotlin.internal.InlineOnly
public inline fun requireNotNull(value: T?): T {
    contract {
        returns() implies (value != null)\n    }
    return requireNotNull(value) { "Required value was null." }
}

/**
 * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is null. Otherwise returns the not null value.\n */
@kotlin.internal.InlineOnly
public inline fun requireNotNull(value: T?, lazyMessage: () -> Any): T {
    contract {
        returns() implies (value != null)\n    }
    if (value == null) {
        val message = lazyMessage()\n        throw IllegalArgumentException(message.toString())\n    } else {
        return value
    }
}

/**
 * Throws an [IllegalStateException] if the [value] is false.\n */
@kotlin.internal.InlineOnly
public inline fun check(value: Boolean): Unit {
    contract {
        returns() implies value\n    }
    check(value) { "Check failed." }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n */
@kotlin.internal.InlineOnly
public inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value\n    }
    if (!value) {
        val message = lazyMessage()\n        throw IllegalStateException(message.toString())
    }
}

/**
 * Throws an [IllegalStateException] if the [value] is null. Otherwise returns the not null value.\n */
@kotlin.internal.InlineOnly
public inline fun checkNotNull(value: T?): T {
    contract {
        returns() implies (value != null)\n    }
    return checkNotNull(value) { "Required value was null." }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise returns the not null value.\n */
@kotlin.internal.InlineOnly
public inline fun checkNotNull(value: T?, lazyMessage: () -> Any): T {
    contract {
        returns() implies (value != null)\n    }
    if (value == null) {
        val message = lazyMessage()\n        throw IllegalStateException(message.toString())
    } else {
        return value
    }
}
out of bounds of this array.

```kotlin
out of bounds of this array.

```
override fun lastIndexOf(element: Char): Int {
    return this@asList.lastIndexOf(element)
}

override fun lastIndexOf(element: Char): Int {
    if (element as Any?) !is Char return -1
    return this@asList.lastIndexOf(element)
}

/**
 * Returns `true` if the two specified arrays are *deeply* equal to one another, \( \ast \) \( \ast \) i.e. contain the same number of the same elements in the same order. \( \ast \) \( \ast \) If two corresponding elements are nested arrays, they are also compared deeply. \( \ast \) \( \ast \) If any of arrays contains itself on any nesting level the behavior is undefined. \( \ast \) \( \ast \) The elements of other types are compared for equality with the \[equals\][Any.equals] function. \( \ast \) \( \ast \) For floating point numbers it means that \( \text{`NaN'\text{`}} \) is equal to itself and \( -0.0 \) is not equal to \( 0.0 \).

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@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {
    arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndexOf the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndexOf the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {
    arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndexOf the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndexOf the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {
    arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndexOf the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndexOf the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {
    arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)
    return destination
}
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. When `startIndex > endIndex`, [IllegalArgumentException] or [IllegalArgument] is thrown when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset]. When [startIndex] or [endIndex] is out of range of this array indices when `startIndex > endIndex`, [IllegalArgumentException] or [IllegalArgument] is thrown when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset]. It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

```kotlin
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {
    arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)
    return destination
}
```

> It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

```kotlin
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {
    arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)
    return destination
}
```

> It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

```kotlin
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {
    arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)
    return destination
}
```

> It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

```kotlin
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun <T> Array<out T>.copyOf(): Array<T> {
    return this.asDynamic().slice()
}
```

> It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

```kotlin
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun ByteArray.copyOf(): ByteArray {
    return this.asDynamic().slice()
}
```

> It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

```kotlin
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun ShortArray.copyOf(): ShortArray {
    return this.asDynamic().slice()
}
```

> It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

```kotlin
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun IntArray.copyOf(): IntArray {
    return this.asDynamic().slice()
}
```

> It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
`public actual fun LongArray.copyOf(): LongArray { return withType("LongArray", this.asDynamic().slice())
    }`
*An actual function DoubleArray.copyOf(newSize: Int): DoubleArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, DoubleArray(newSize)).\n}\n\n* An actual function BooleanArray.copyOf(newSize: Int): BooleanArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("BooleanArray", arrayCopyResize(this, newSize, false)).\n}\n\n* An actual function CharArray.copyOf(newSize: Int): CharArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return this.asDynamic().slice(fromIndex, toIndex).\n}\n\n* An actual function ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size).\n    return this.asDynamic().slice(fromIndex, toIndex).\n}\n\n* An actual function ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size).\n    return this.asDynamic().slice(fromIndex, toIndex).\n}\n\n* An actual function IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size).\n    return this.asDynamic().slice(fromIndex, toIndex).\n}\n\n* An actual function LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size).\n    return this.asDynamic().slice(fromIndex, toIndex).\n}\n
public actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, DoubleArray(newSize)).\n}\n\npublic actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("BooleanArray", arrayCopyResize(this, newSize, false)).\n}\n\npublic actual fun CharArray.copyOf(newSize: Int): CharArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return this.asDynamic().slice(fromIndex, toIndex).\n}\n\npublic actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size).\n    return this.asDynamic().slice(fromIndex, toIndex).\n}\n\npublic actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size).\n    return this.asDynamic().slice(fromIndex, toIndex).\n}\n\npublic actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size).\n    return this.asDynamic().slice(fromIndex, toIndex).\n}\n\npublic actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size).\n    return this.asDynamic().slice(fromIndex, toIndex).\n}\n
range of the original array.\n* \n* @param fromIndex the start of the range (inclusive), must be in `0..array.size` \n* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size` \n*/
public actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n* \n* \n\n* \n* @param fromIndex the start of the range (inclusive), must be in `0..array.size` \n* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size` \n* \n* \n\n* \n* @param fromIndex the start of the range (inclusive), must be in `0..array.size` \n* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size` \n*/
public actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n* \n* \n\n* \n* @param fromIndex the start of the range (inclusive), must be in `0..array.size` \n* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size` \n*/
public actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType("BooleanArray", this.asDynamic().slice(fromIndex, toIndex))\n* \n* \n\n* \n* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n* \n* \n\n* \n* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n* \n* \n\n* \n* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n* \n* \n\n* \n* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n* \n* \n\n* \n* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n* \n* \n\n* \n* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n* \n* \n\n* \n* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n* \n* \n\n* \n* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n* \n* \n\n* \n* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
} *\n* Fills this array or its subrange with the specified [element] value.
* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), size of this array by default.
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

*\n*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
} *\n* Fills this array or its subrange with the specified [element] value.
* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), size of this array by default.
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

*\n*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
} *\n* Fills this array or its subrange with the specified [element] value.
* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), size of this array by default.
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

*\n*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
} *\n* Fills this array or its subrange with the specified [element] value.
* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), size of this array by default.
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

*\n*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
} *\n* Fills this array or its subrange with the specified [element] value.
* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), size of this array by default.
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

*\n*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
} *\n* Returns an array containing all elements of the original array and then the given [element].
*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {
    return this.asDynamic().concat(arrayOf(element))
} *\n* Returns an array containing all elements of the original array and then the given [element].
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.plus(element: Byte): ByteArray {
    return plus(byteArrayOf(element))
} *\n* Returns an
array containing all elements of the original array and then the given [element].

*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(element: Short):
ShortArray {
    return plus(shortArrayOf(element))\n}\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun IntArray.plus(element: Int):
IntArray {
    return plus(intArrayOf(element))\n}\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(element: Long):
LongArray {
    return plus(longArrayOf(element))\n}\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun FloatArray.plus(element: Float):
FloatArray {
    return plus(floatArrayOf(element))\n}\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(element: Double):
DoubleArray {
    return plus(doubleArrayOf(element))\n}\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun BooleanArray.plus(element: Boolean):
BooleanArray {
    return plus(booleanArrayOf(element))\n}\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun CharArray.plus(element: Char):
CharArray {
    return plus(charArrayOf(element))\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.plus(elements: Collection<Byte>):
ByteArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(elements: Collection<Short>):
ShortArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun IntArray.plus(elements: Collection<Int>):
IntArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(elements: Collection<Long>):
LongArray {
    return arrayPlusCollection(this, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun FloatArray.plus(elements: Collection<Float>):
FloatArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(elements: Collection<Double>):
DoubleArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun BooleanArray.plus(elements: Collection<Boolean>):
BooleanArray {
    return arrayPlusCollection(this, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun CharArray.plus(elements: Collection<Char>):
CharArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.plus(elements: Array<Byte>):
ByteArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(elements: Array<Short>):
ShortArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun IntArray.plus(elements: Array<Int>):
IntArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(elements: Array<Long>):
LongArray {
    return arrayPlusCollection(this, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun FloatArray.plus(elements: Array<Float>):
FloatArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(elements: Array<Double>):
DoubleArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun BooleanArray.plus(elements: Collection<Boolean>):
BooleanArray {
    return arrayPlusCollection(this, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun CharArray.plus(elements: Array<Char>):
CharArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.asDynamic().concat(elements):
public actual inline operator fun ByteArray.plus(elements: ByteArray): ByteArray {
    return primitiveArrayConcat(this, elements)
}

public actual inline operator fun ShortArray.plus(elements: ShortArray): ShortArray {
    return primitiveArrayConcat(this, elements)
}

public actual inline operator fun IntArray.plus(elements: IntArray): IntArray {
    return primitiveArrayConcat(this, elements)
}

public actual inline operator fun LongArray.plus(elements: LongArray): LongArray {
    return primitiveArrayConcat(this, elements)
}

public actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {
    return primitiveArrayConcat(this, elements)
}

public actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {
    return primitiveArrayConcat(this, elements)
}

public actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {
    return primitiveArrayConcat(this, elements)
}

public actual inline operator fun CharArray.plus(elements: CharArray): CharArray {
    return primitiveArrayConcat(this, elements)
}

public actual inline fun <T> Array<out T>.plusElement(element: T): Array<T> {
    return this.asDynamic().concat(arrayOf(element))
}

public actual fun IntArray.sort(): Unit {
    definedExternally
}

public actual fun LongArray.sort(): Unit {
    if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }
}

public actual fun ByteArray.sort(): Unit {
    definedExternally
}

public actual fun ShortArray.sort(): Unit {
    definedExternally
}

public actual fun DoubleArray.sort(): Unit {
    definedExternally
}

public actual fun FloatArray.sort(): Unit {
    definedExternally
}

public actual fun DoubleArray.sort(): Unit {
    definedExternally
}

public actual fun BooleanArray.sort(): Unit {
    definedExternally
}

public actual fun CharArray.sort(): Unit {
    definedExternally
}

public actual fun <T : Comparable<T>> Array<out T>.sort(): Unit {
    if (size > 1) sort { a: T, b: T -> a.compareTo(b) }
}

public actual fun FloatArray.sort(): Unit {
    definedExternally
}

public actual fun DoubleArray.sort(): Unit {
    definedExternally
}

public actual fun BooleanArray.sort(): Unit {
    definedExternally
}

public actual fun CharArray.sort(): Unit {
    definedExternally
}

public actual fun <T : Comparable<T>> Array<out T>.sort(): Unit {
    if (size > 1) sort { a: T, b: T -> a.compareTo(b) }
}

public actual fun FloatArray.sort(): Unit {
    definedExternally
}

public actual fun DoubleArray.sort(): Unit {
    definedExternally
}

public actual fun BooleanArray.sort(): Unit {
    definedExternally
}

public actual fun CharArray.sort(): Unit {
    definedExternally
}
public inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 */
public inline fun ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 */
public inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 */
public inline fun LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 */
public inline fun FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 */
public inline fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 */
public inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Compares two values using the specified functions [selectors] to calculate the result
 * of the comparison. [selectors] are called sequentially, receive the given values [a] and [b] and return
 * [Comparable] objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do
 * not compare as equal, the result of that comparison is returned. [Comparable] is a function that can be found
 * in the license/LICENSE.txt file.
 */
public fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {
    require(selectors.size > 0)
    return compareValuesByImpl(a, b, selectors)
}

private fun <T> compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>?>): Int {
    for (fn in selectors) {
        val v1 = fn(a)
        val v2 = fn(b)
        val diff = compareValues(v1, v2)
        if (diff != 0) return diff
    }
    return 0
}
the given values [a] and [b] and return [Comparable] objects.

* The result of comparison of these [Comparable] instances is returned.

* Returns the result of comparison of these [Comparable] instances.

* The function is applied to the given values [a] and [b] and return objects of type K which are then being

* Compared with the given

* [comparator].

* The result of comparison of these [Comparable] instances is returned.

* Not so useful without

* type inference for receiver of expression

* thenByDescending { it.prop1 } andByDescending { it.prop2 } thenBy { Comparable

* value. Not considered less than any value.

* Compare two nullable [Comparable] values. Null

* is considered less than any value.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.

* Compares two values

* using the specified [selector] function to calculate the result of the comparison.
the given [comparator].

```kotlin
*An@kotlin.internal.InlineOnly\public\inline\fun \(<T, K> Comparator<T>.thenBy(comparator: Comparator<in K>,
    crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(a, b, comparator, selector)\n    }\n
*An@kotlin.internal.InlineOnly\public\inline\fun \(<T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>,
    crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n    }
```

The provided code examples demonstrate various comparison methods in the `Comparator` class, including sorting by a given comparator, then by another comparator using a selector, and creating descending comparators. The functions are designed to be inline and are part of the Kotlin standard library, enabling efficient comparison and sorting of collections or objects based on specific criteria.
naturalOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as Comparator<T>)

/**
 * Returns a comparator that compares [Comparable] objects in reversed natural order.
 * @returns a comparator that compares [Comparable] objects in reversed natural order.
 * @param list the list of objects to compare
 * @returns a comparator that compares [Comparable] objects in reversed natural order.
 */
public fun <T : Comparable<T>> reverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST") (ReverseOrderComparator as Comparator<T>)

/**
 * Returns a comparator that imposes the reverse ordering of this comparator.
 * @param list the list of objects to compare
 * @returns a comparator that imposes the reverse ordering of this comparator.
 */
public fun <T> Comparator<T>.reversed(): Comparator<T> = when (this) {
    is ReversedComparator -> this.comparator
    NaturalOrderComparator -> @Suppress("UNCHECKED_CAST") (ReverseOrderComparator as Comparator<T>)
    ReverseOrderComparator -> @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as Comparator<T>)
    else -> ReversedComparator(this)
}

private class ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {
    override fun compare(a: T, b: T): Int = comparator.compare(b, a)
    @Suppress("VIRTUAL_MEMBER_HIDDEN")
    fun reversed(): Comparator<T> = comparator
}

private object NaturalOrderComparator : Comparator<Comparable<Any>> {
    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)
    @Suppress("VIRTUAL_MEMBER_HIDDEN")
    fun reversed(): Comparator<Comparable<Any>> = ReverseOrderComparator
}

private object ReverseOrderComparator : Comparator<Comparable<Any>> {
    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)
    @Suppress("VIRTUAL_MEMBER_HIDDEN")
    fun reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator
}

public actual interface Comparator<T> {
    @JsName("compare")
    actual fun compare(a: T, b: T): Int
}

public actual inline fun <T> Comparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> = object : Comparator<T> {
    override fun compare(a: T, b: T): Int = comparison(a, b)
}

/**
 * An exception is thrown to indicate that a method body remains to be implemented.
 * @param message the exception message
 * @returns a String
 */
public class NotImplementedError(message: String = "An operation is not implemented.") : Error(message)

/**
 * Always throws [NotImplementedError] stating that operation is not implemented.
 * @param reason the reason for the operation not being implemented
 * @returns a String
 */
@kotlin.internal.InlineOnly
public inline fun TODO(): Nothing = throw NotImplementedError()

/**
 * Always throws [NotImplementedError] stating that operation is not implemented.
 * @param reason the reason for the operation not being implemented
 * @returns a String
 */
@kotlin.internal.InlineOnly
public inline fun TODO(reason: String): Nothing = throw NotImplementedError("An operation is not implemented: $reason")

/**
 * Calls the specified function [block] and returns its result.
 * @param block the function to call
 * @returns the result
 */
@kotlin.internal.InlineOnly
public inline fun <R> run(block: () -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block()
}

/**
 * Calls the specified function [block] with the given [receiver] as its receiver and returns its result.
 * @param receiver the receiver
 * @param block the function to call
 * @returns the result
 */
@kotlin.internal.InlineOnly
public inline fun <T, R> T.run(block: T.() -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block()
}
fun functions.html#apply).

//
// NOTE: THIS FILE IS AUTO-GENERATED by the
// GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.js.*

/**
 * Returns the greater of two values.
 * If values are equal, returns the first one.
 */
@SinceKotlin("1.1")
public actual fun <T, R> T.let(block: (T) -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block(this)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Byte, b: Byte): Byte {
    return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Short, b: Short): Short {
    return maxOf(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Int, b: Int): Int {
    return Math.max(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Long, b: Long): Long {
    return Math.max(a, b)
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Float, b: Float): Float {
    return Math.max(a, b)
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Double, b: Double): Double {
    return Math.max(a, b)
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: maxOf(b, c)): Double {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the specified function [block] with `this` value as its argument and returns `this` value.
 */
@kotlin.internal.InlineOnly
public inline fun <T> T.then(block: T.() -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    block(this)
    return this
}

/**
 * Calls the specified function [block] with `this` value as its argument and returns its result.
 */
@kotlin.internal.InlineOnly
public inline fun <T> T.thenElse(block: T.() -> Unit, elseBlock: T.() -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return if (block(this)) block else elseBlock()
}

/**
 * Performs the given function [action] specified number of [times].
 *
 * @param times The number of iterations.
 * @param action The function to execute.
 */
@kotlin.internal.InlineOnly
public inline fun repeat(times: Int, action: (Int) -> Unit) {
    contract {
        callsInPlace(action)
    }
    for (i in 0 until times) {
        action(i)
    }
}
inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun maxOf(a: Short, b: Short, c: Short): Short {
    return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun maxOf(a: Int, b: Int, c: Int): Int {
    return Math.max(a, b, c)
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun maxOf(a: Long, b: Long, c: Long): Long {
    return Math.max(a, maxOf(b, c))
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun maxOf(a: Float, b: Float, c: Float): Float {
    return Math.max(a, b, c)
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun maxOf(a: Double, b: Double, c: Double): Double {
    return Math.max(a, b, c)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> minOf(a: T, b: T): T {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Byte, b: Byte): Byte {
    return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Short, b: Short): Short {
    return Math.min(a.toInt(), b.toInt()).unsafeCast<Short>()
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Int, b: Int): Int {
    return Math.min(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun minOf(a: Long, b: Long): Long {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun minOf(a: Float, b: Float): Float {
    return Math.min(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun minOf(a: Double, b: Double): Double {
    return Math.min(a, b)
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun minOf(a: Short, b: Short, c: Short): Short {
    return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun minOf(a: Int, b: Int, c: Int): Int {
    return Math.min(a, b, c)
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun minOf(a: Long, b: Long, c: Long): Long {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@kotlin.experimental.AnyNumberOfArguments
@kotlin.experimental.InlineOnly
public actual inline fun minOf(a: Float, b: Float, c: Float): Float {
    return Math.min(a, b, c)
}
package kotlin.collections

/*
 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns 1st *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component1(): T {
    return get(0)
}

/**
 * Returns 2nd *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 2.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component2(): T {
    return get(1)
}

/**
 * Returns 3rd *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 3.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component3(): T {
    return get(2)
}

/**
 * Returns 4th *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component4(): T {
    return get(3)
}

/**
 * Returns 5th *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 5.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component5(): T {
    return get(4)
}

/**
 * Returns an *element* at the given *index* or throws an [IndexOutOfBoundsException] if the *index* is out of bounds of this list.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
@kotlin.internal.InlineOnly
public inline fun <T> List<T>.elementAt(index: Int): T {
    return get(index)
}

/**
 * Returns an *element* at the given *index* or the result of calling the [defaultValue] function if the *index* is out of bounds of this list.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
public fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
    return this.getOrElse(index, defaultValue)
}

/**
 * Returns an *element* at the given *index* or `null` if the *index* is out of bounds of this list.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrNull
 */
@kotlin.internal.InlineOnly
public inline fun <T> List<T>.elementAtOrNull(index: Int): T? {
    return this.getOrNull(index)
}
element matching the given [predicate], or `null` if no such element was found.

```kotlin
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): T? {
    return firstOrNull(predicate)!!\n    \n    for (element in this) {
        if (element == item)
            return index
        index++
    }
    return -1
}

/**
 * Returns the first index of 
 * Returns the first index of [element], or -1 if the list does not contain element.
 */
@kotlin.internal.InlineOnly
public inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    var index = 0
    for (item in this) {
        if (predicate(item))
            return index
        index++
    }
    return -1
}

/**
 * Returns index of the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {
    return
```

---

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return iterator.nextIndex()
        }
    }
    return -1
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the list contains no element.
 */
public fun <T> Iterable<T>.last(): T {
    when (this)
    { is List -> return this.last()
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext())
                throw NoSuchElementException("Collection is empty.")
            var last = iterator.next()
            while (iterator.hasNext())
                last = iterator.next()
            return last
        }
    }
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the list contains no element.
 */
public fun <T> List<T>.last(): T {
    if (isEmpty())
        throw NoSuchElementException("List contains no element.")
    return this[lastIndex]
}

/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun <T> Iterable<T>.last(predicate: (T) -> Boolean): T {
    var last: T? = null
    var found = false
    for (element in this)
        if (predicate(element)) {
            last = element
            found = true
        }
    if (!found) throw NoSuchElementException("Collection contains no element
matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return last as T
}

/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun <T> List<T>.last(predicate: (T) -> Boolean): T {
    val iterator = this.listIterator(size)
    while (iterator.hasPrevious())
        if (predicate(iterator.previous()))
            return iterator.previous()
    throw NoSuchElementException("List contains no element matching the predicate.")
}

/**
 * Returns the last index of [element], or -1 if the collection does not contain element.
 */
public fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {
    if (this is List) return this.lastIndexOf(element)
    var lastIndex = -1
    var index = 0
    for (item in this)
        if (element == item)
            lastIndex = index
        index++
    return lastIndex
}

/**
 * Returns the last index of [element], or -1 if the list does not contain element.
 */
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases
public fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {
    return lastIndexOf(element)
}

/**
 * Returns the last element, or `null` if the collection is empty.
 */
public fun <T> Iterable<T>.lastOrNull(): T? {
    when (this)
    { is List -> return if (isEmpty()) null else this[size - 1]
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext())
                return null
            var last = iterator.next()
            while (iterator.hasNext())
                last = iterator.next()
            return last
        }
    }
}

/**
 * Returns the last element, or `null` if the list is empty.
 */
public fun <T> List<T>.lastOrNull(): T? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
public inline fun <T> Iterable<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    var last: T? = null
    for (element in this)
        if (predicate(element)) {
            last = element
        }
    return last
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
public inline fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    val iterator = this.listIterator(size)
    while (iterator.hasPrevious())
        if (predicate(iterator.previous()))
            return iterator.previous()
    return null
}

/**
 * Returns a random element from this collection.
 * @throws NoSuchElementException if this collection is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.random(): T {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this collection using the specified source of randomness.
 * @throws NoSuchElementException if this collection is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T> Collection<T>.randomOrNull(random: Random): T? {
    if (isEmpty())
        return null
    return elementAt(random.nextInt(size))
}

/**
 * Returns a random element from this collection, or `null` if this collection is empty.
 * @throws NoSuchElementException if this collection is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.randomOrNull(): T? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this collection using the specified source of randomness.
 * @throws NoSuchElementException if this collection is empty.
 */
@SinceKotlin("1.3")
public fun <T> Collection<T>.random(random: Random): T? {
    if (isEmpty())
        throw NoSuchElementException("Collection is empty.")
    return elementAt(random.nextInt(size))
}

/**
 * Returns a random element from this collection, or `null` if this collection is empty.
 * @throws NoSuchElementException if this collection is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public fun <T> Collection<T>.randomOrNull(random: Random): T? {
    if (isEmpty())
        return null
    return elementAt(random.nextInt(size))
}

/**
 * Returns a random element from this collection, or `null` if this collection is empty.
 * @throws NoSuchElementException if this collection is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.randomOrNull(): T? {
    return randomOrNull(Random)
}
[predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element. 

```kotlin
Iterables<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> { 
    val list = ArrayList<T>(size)
    for (index in size - n until size) 
        list.add(this[index])
    return list
}
```

```kotlin
Iterables<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C { 
    for (index in size - n until size) 
        destination.add(element)
    return destination
}
```

```kotlin
List<T>.takeLast(n: Int): List<T> { 
    val list = ArrayList<T>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
```

```kotlin
List<T>.slice(indices: IntRange): List<T> { 
    if (indices.isEmpty()) return listOf()
    return this.subList(indices.start, indices.endInclusive + 1).toList()
}
```

```kotlin
List<T>.slice(indices: IntRange): List<T> { 
    if (indices.isEmpty()) return listOf()
    return this.subList(indices.start, indices.endInclusive + 1).toList()
}
```

```kotlin
List<T>.slice(indices: Collection<in Int>): List<T> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    return this.subList(indices.start, indices.endInclusive + 1).toList()
}
```

```kotlin
List<T>.slice(indices: Collection<in Int>): List<T> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    return this.subList(indices.start, indices.endInclusive + 1).toList()
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}
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List<T>.slice(indices: Collection<in Int>): List<T> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    return this.subList(indices.start, indices.endInclusive + 1).toList()
}
```
Returns a list containing first elements satisfying the given [predicate].

```kotlin
@sample samples.collections.Collections.Transformations.take

fun *\<T\>* takeInline fn T* \#fn \# \# Predicate: (T) \#-> \# Boolean: List\<T\>* \# return \#\(List\<T\>*\)\# for \(item in this\) \# if \(\!(predicate\(item\))\) \# break \# list\#add\(item\)\# end \# list \#\# return list\#\ end \#\ list \#\# reverse()\ return list\#\ end \#\ list \#\# reverse()\ return list\#\ end \#\ list \#\#\# return list\#\ end \#\ list \#\#\#\# return list\#
```

```kotlin
public inline fun <T> Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {
    val list = ArrayList<T>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}
```

```
/**
 * Reverses elements in the list in-place.
 */
public expect fun <T> MutableList<T>.reverse(): Unit

/**
 * Returns a list with elements in reversed order of the value returned by specified [selector] function.
 */
public fun <T> Iterable<T>.reversed(): List<T> {
    if (this is Collection && size <= 1) return toList()
    val list = toMutableList().reverse()
    return list
}
```

```
/**
 * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {
    if (size > 1)
        sortWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
public fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {
    sortWith(reverseOrder())
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 */
public fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {
    if (this is Collection) {
        if (size <= 1) return this.toList()
        @Suppress("UNCHECKED_CAST")
        return (toTypedArray<Any?>("UNCHECKED_CAST") as Array<T>).apply { sortWith(comparator) }.asList()
    }
    return toMutableList().apply { sortWith(comparator) }
}
```

```
/**
 * Returns an array of Boolean containing all of the elements of this collection.
 */
public fun Collection<Boolean>.toBooleanArray(): BooleanArray {
    val result = BooleanArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
```

```
/**
 * Returns an array of Byte containing all of the elements of this collection.
 */
public fun Collection<Byte>.toByteArray(): ByteArray {
    val result = ByteArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
```

```
/**
 * Returns an array of Char containing all of the elements of this collection.
 */
public fun Collection<Char>.toCharArray(): CharArray {
    val result = CharArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
```

```
/**
 * Returns an array of Double containing all of the elements of this collection.
 */
public fun Collection<Double>.toDoubleArray(): DoubleArray {
    val result = DoubleArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
```

```
/**
 * Returns an array of Float containing all of the elements of this collection.
 */
public fun Collection<Float>.toFloatArray():FloatArray {
    val result = FloatArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
```

```
/**
 * Returns an array of Int containing all of the elements of this collection.
 */
public fun Collection<Int>.toIntArray(): IntArray {
    val result = IntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
```

```
/**
 * Returns an array of Long containing all of the elements of this collection.
 */
public fun Collection<Long>.toLongArray(): LongArray {
    val result = LongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
```
all of the elements of this collection. */

public fun Collection<Float>.toFloatArray(): FloatArray {
    val result = FloatArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Int containing all of the elements of this collection.
 */
public fun Collection<Int>.toIntArray(): IntArray {
    val result = IntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Long containing all of the elements of this collection.
 */
public fun Collection<Long>.toLongArray(): LongArray {
    val result = LongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Short containing all of the elements of this collection.
 */
public fun Collection<Short>.toShortArray(): ShortArray {
    val result = ShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns a [Map] containing key-value pairs provided by [transform] function
 * applied to elements of the given collection.
 */
public fun Collection<*>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K,
    V>(capacity), transform)
}

/**
 * Returns a [Map] containing the elements from the given collection indexed
 * by the key returned from [keySelector] function applied to each element.
 */
public fun Collection<*>.associateBy(keySelector: (T) -> K): Map<K, T> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K,
    T>(capacity), keySelector)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and
 * indexed by [keySelector] functions applied to elements of the given collection.
 */
public fun Collection<*>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K,
    V>(capacity), keySelector, valueTransform)
}

/**
 * Populates and returns the [destination] mutable map with
 * key-value pairs, where key is provided by the [keySelector] function applied to each element of the given
 * collection and value is the element itself.
 */
public fun Collection<*>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with
 * key-value pairs, where key is provided by the [keySelector] function and
 * value is provided by the [valueTransform] function applied to each element of the given collection.
 */
public fun Collection<*>.associateByToWithValueTransform(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Returns a [Map] where keys are
 */
public fun Collection<*>.toMap(): Map<K, V> {
    val result = HashMap<K, V>(size)
    var index = 0
    for (element in this)
        result[keySelector(index)] = valueTransform(index)
    return result
}
elements from the given collection and values are produced by the [valueSelector] function applied to each element.

If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original collection.

@sample
samples.collections.Collections.Transformations.associateWith

Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> { val result = LinkedHashMap<K, V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)) return associateWithTo(result, valueSelector) }

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given collection where key is the element itself and value is provided by the [valueSelector] function applied to that key.

If any two elements are equal, the last one overwrites the former value in the map.

@sample
samples.Collections.Transformations.associateWithTo

Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M { for (element in this) { destination.put(element, valueSelector(element)) } return destination }

Iterable<T>.toCollection(destination: C): C { for (item in this) { destination.add(item) } return destination }

Iterable<T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))
}

Iterable<T>.toList(): List<T> {
    if (this is Collection) {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(if (this is List) get(0) else iterator().next())
            else -> this.toMutableList().optimizeReadOnlyList()
        }
    }
    return this.toMutableList().optimizeReadOnlyList()
}

Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}

Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}
of the original collection by the key returned by the given \([keySelector] function\n * applied to each element and
puts to the \([destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map \n * \n * @sample samples.collections.Collections.Transformations.groupBy
 * \n * \n */
public inline fun <T, K, M : MutableMap<K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) {\n            ArrayList<T>()\n        }\n        list.add(element)\n    }\n    return destination\n}

/**
 * Groups values returned by the \([keySelector] function applied to each element of the original collection \n * by the key returned by the given \([keySelector] function applied to the element \n * and puts to the \([destination] map each group key associated with a list of corresponding values.\n * \n * @return The \[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <T, K, V, M : MutableList<V>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) {\n            ArrayList<V>()\n        }\n        list.add(valueTransform(element))\n    }\n    return destination\n}

/**
 * Creates a \([Grouping] source from a collection to be used later with one of group-and-fold operations \n * using the specified \([keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Collections.Grouping.groupingByEachCount
 */
@SinceKotlin("1.1")
public inline fun <T, K> Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n    return object : Grouping<T, K> {\n        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n        override fun keyOf(element: T): K = keySelector(element)\n    }\n}

/**
 * Returns a list containing the results of applying the given \[transform] function \n * to each element in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.map
 */
public inline fun <T, R> Iterable<T>.map(transform: (T) -> R): List<R> {\n    return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}

/**
 * Returns a list containing only \n * the non-null results of applying the given \[transform] function \n * to each element and its index in
 * the original collection.\n * \n * @param \[transform] function that takes the index of an element and the element itself \n * and returns the result of the transform applied to the element.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull
 */
public inline fun <T, R : Any> Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(), transform)\n}

/**
 * Applies the given \[transform] function to each element and its index in the original collection \n * and appends only the non-null results to the given \[destination].\n * \n * @param \[transform] function that takes the index of an element and the element itself \n * and returns the result of the transform applied to the element.\n * \n * @sample samples.collections.Collections.Transformations.mapIndexed
 */
public inline fun <T, R, C : MutableList<R>> Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n    for (index in this) {\n        destination.add(transform(checkIndexOverflow(index++), item))\n    }\n    return destination\n}

/**
 * Applies the given \[transform] function to each element and its index in the original collection \n * and appends only the non-null results to the given \[destination].\n * \n * @param \[transform] function that takes the index of an element and the element itself \n * and returns the result of the transform applied to the element.\n * \n * @sample samples.collections.Collections.Transformations.mapIndexedNotNull
 */
public inline fun <T, R : Any, C : MutableList<R>> Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): C {\n    var index = 0\n    for (item in this) {\n        destination.add(transform(\n            index++\n        ))\n    }\n    return destination\n}

/**
 * Applies the given \[transform] function to each element and its index in the original collection \n * and appends only the non-null results to the given \[destination].\n * \n * @param \[transform] function that takes the index of an element and the element itself \n * and returns the result of the transform applied to the element.\n * \n * @sample samples.collections.Collections.Transformations.mapIndexedNotNullTo
 */
public inline fun <T, R : Any, C : MutableList<R>> Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): List<R> {\n    for (index in this) {\n        destination.add(transform(\n            index++\n        ))\n    }\n    return destination\n}

/**
 * Applies the given \[transform] function to each element and its index in the original collection \n * and appends only the non-null results to the given \[destination].\n * \n * @param \[transform] function that takes the index of an element and the element itself \n * and returns the result of the transform applied to the element.\n * \n * @sample samples.collections.Collections.Transformations.mapIndexedTo
 */
public inline fun <T, R, C : MutableList<R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n    var index = 0\n    for (item in this) {\n        destination.add(transform(\n            index++\n        ))\n    }\n    return destination\n}
element -> transform(element)?

\[
\text{return destination[\text{ii}] \text{\#\#\#} * \text{Applies the given [transform] function to each element of the original collection\text{\#\#\#} and appends the results to the given [destination].}}\text{\#\#\#} * \text{public inline fun \text{<T, R, C> : MutableCollection<in R>> Iterable<\text{T}}.mapTo(destination: C, transform: (T) -> R): C { for (item in this) destination.add(transform(item)) return destination[\text{\#\#\#} * \text{Returns a lazy [Iterable] that wraps each element of the original collection\text{\#\#\#} into an [IndexedValue] containing the index of that element and the element itself.}}\text{\#\#\#} * \text{public fun \text{<T> Iterable<\text{T}.distinct(): List<\text{T}} { return this.toMutableSet().toList()[\text{\#\#\#} * \text{Returns a list containing only distinct elements from the given collection.\text{\#\#\#} * \text{The elements in the resulting list are in the same order as they were in the source collection.\text{\#\#\#} * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\text{\#\#\#} * \text{public infix fun \text{<T> Iterable<\text{T}.intersect(other: Iterable<\text{T}}): Set<\text{T}} { val set = this.toMutableSet().retainAll(other) return set[\text{\#\#\#} * \text{Returns a set containing all elements that are contained by this collection and not contained by the specified collection.\text{\#\#\#} * \text{The returned set preserves the element iteration order of the original collection.\text{\#\#\#} * \text{public fun \text{<T> Iterable<\text{T}.toMutableSet(): MutableSet<\text{T}} { return when (this) { is Collection<\text{T}} -> LinkedHashSet(this) else -> toCollection(LinkedHashSet<\text{T}}()) return set[\text{\#\#\#} * \text{Returns a mutable set containing all distinct elements from the given collection.\text{\#\#\#} * \text{The returned set preserves the element iteration order of the original collection.\text{\#\#\#} * \text{public inline fun \text{<T> Iterable<\text{T}.all(predicate: (\text{T}} -> Boolean): Boolean { if (this is Collection && isNotEmpty()) return true\text{\#\#\#} \text{for (element in this) if (!predicate(element)) return false\text{\#\#\#} \text{Returns `true` if all elements match the given [predicate].\text{\#\#\#} * \text{public inline fun \text{<T> Iterable<\text{T}.any(predicate: (\text{T}} -> Boolean): Boolean { if (this is Collection && isNotEmpty()) return true\text{\#\#\#} \text{for (element in this) if (!predicate(element)) return false\text{\#\#\#} \text{Returns `true` if at least one element matches the given [predicate].\text{\#\#\#} * \text{public fun \text{<T> Iterable<\text{T}.count(): Int { if (this is Collection) return size\text{\#\#\#} var count = 0\text{\#\#\#} return checkCountOverflow(++count) return count[\text{\#\#\#} * \text{Returns the number of elements in this collection.\text{\#\#\#} * \text{public fun \text{<T> Iterable<\text{T}.count(): Int { if (this is Collection && isNotEmpty()) return 0\text{\#\#\#} for (element in this) checkCountOverflow(++count) return count[\text{\#\#\#} * \text{Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator.
= iterator().n
 if (!iterator.hasNext()) return null
 var min = iterator.next().n
 if (min.isNaN()) return min
 while (iterator.hasNext()) {
     var e = iterator.next().n
     if (e.isNaN()) return e
     if (min > e) min = e
 }
 return min

**/n
@SinceKotlin("1.1")
public fun Iterable<Float>.min(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next().n
    while (iterator.hasNext()) {
        val e = iterator.next().n
        if (e.isNaN()) return e
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the smallest element yielding the smallest value of the given function or
 * `null` if there are no elements.
 */
public fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minElem = iterator.next().n
    while (iterator.hasNext()) {
        val e = iterator.next().n
        if (selector(minElem) > selector(e)) minElem = e
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value according to the provided [comparator]
 * or `null` if there are no elements.
 */
public fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw
    var accumulator: S = iterator.next().n
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next().n)
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
to the current accumulator value and each element.
 */
public fun <S> Iterable<S>.reduceIndexed(operation: (index: Int, acc: S, S) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw
    var index = 1
    var accumulator: S = iterator.next().n
    while (iterator.hasNext()) {
        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next().n)
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
to the current accumulator value and each element.
 */
public fun <S> Iterable<S>.reduceOrNull(operation: (acc: S, S) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw
    var accumulator: S = iterator.next().n
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next().n)
    }
    return accumulator
}
starting with last element and applying [operation] from right to left to each element and current accumulator value.

* @param [operation] function that takes the index of an element, the element itself, and current accumulator
  value, and calculates the next accumulator value.
  @sample samples.collections.Collections.Aggregates.reduceRightIndexed
*/
public inline fun <S, T : S>
List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        throw UnsupportedOperationException("Empty list can't be reduced.")
    var
    accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        val index = iterator.previousIndex()
        accumulator = operation(index, iterator.previous(), accumulator)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value
 * that starts with the first element of this collection.
 * @param [operation] function that takes the index of an element, current accumulator
 * value and the element itself, and calculates the next accumulator value.
  @sample samples.collections.Collections.Aggregates.reduceRightOrOrNull
*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S>
List<T>.reduceRightOrOrNull(operation: (T, acc: S) -> S): S? {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        throw UnsupportedOperationException("Empty list can't be reduced.")
    var
    accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        accumulator = operation(iterator.previous(), accumulator)
    }
    return accumulator
}
Iterable<T>.scanReduce(operation: (acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    var accumulator: S = iterator.next()
    val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original collection and current accumulator value that starts with the first element of this collection.
 * Note that 'acc' value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 * @param * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Iterable<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    var accumulator: S = iterator.next()
    val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }
    var index = 1
    while (iterator.hasNext()) {
        accumulator = operation(index++, accumulator, iterator.next())
        result.add(accumulator)
    }
    return result
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the collection.
 */
public inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the collection.
 */
public inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Splits this collection into a list of non-`null` elements, throwing an [IllegalArgument] if there are any `null` elements.
 * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.
 * @sample samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

/**
 * Returns a list containing all elements of the original collection without the first occurrence of the given [element].
 */
operator fun <T> Iterable<T>.minus(element: T): List<T> {
    val result = ArrayList<T>(collectionSizeOrDefault(10))
    var removed = false
    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}

/**
 * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgument] if there are any `null` elements.
 * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.
 * @sample samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun <T> Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

/*
 * Splits this collection into several lists each not exceeding the given [size] and applies the given [transform] function to an each.
 * @return list of results of the [transform] applied to an each list.
 * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * The last list may have less elements than the given [size].
 * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.
 * @param * @sample samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

/*
 * Splits this collection into several lists each not exceeding the given [size] and applies the given [transform] function to an each.
 * @return list of results of the [transform] applied to an each list.
 * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * The last list may have less elements than the given [size].
 * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.
 * @param * @sample samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun <T> List<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

/*
 * Splits this collection into several lists each not exceeding the given [size] and applies the given [transform] function to an each.
 * @return list of results of the [transform] applied to an each list.
 * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * The last list may have less elements than the given [size].
 * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.
 * @param * @sample samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun <T> List<T?>.chunked(size: Int): List<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as List<T>
}

/*
 * Splits this collection into several lists each not exceeding the given [size] and applies the given [transform] function to an each.
 * @return list of results of the [transform] applied to an each list.
 * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * The last list may have less elements than the given [size].
 * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.
 * @param * @sample samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun <T> List<T?>.chunked(size: Int): List<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as List<T>
}

/*
 * Splits this collection into several lists each not exceeding the given [size] and applies the given [transform] function to an each.
 * @return list of results of the [transform] applied to an each list.
 * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * The last list may have less elements than the given [size].
 * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.
 * @param * @sample samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun <T> List<T?>.chunked(size: Int): List<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as List<T>
}

/*
 * Splits this collection into several lists each not exceeding the given [size] and applies the given [transform] function to an each.
 * @return list of results of the [transform] applied to an each list.
 * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * The last list may have less elements than the given [size].
 * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.
 * @param * @sample samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun <T> List<T?>.chunked(size: Int): List<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as List<T>
}
implementation of `hashCode()` that doesn't change between successive invocations.

```kotlin
public operator fun <T> Iterable<T>.minus(elements: Array<out T>): List<T> {
    if (elements.isEmpty()) return this.toList()
    val other = elements.toArrayHashSet()
    return this.filterNot { it in other }
}

/**
 * Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.
 * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.
 */
public operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {
    if (other.isEmpty()) return this.filterNot { it in other }
    return this.filterNot { it in other }
}

/**
 * Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.
 * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.
 */
public operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {
    val other = elements.toHashSet()
    if (other.isEmpty()) return this.filterNot { it in other }
    return this.filterNot { it in other }
}

/**
 * Returns a list containing all elements of the original collection and then the given [element].
 */
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.plus(element: T): List<T> {
    return minus(element)
}

/**
 * Splits the original collection into pair of lists, where the first list contains elements for which [predicate] yielded `true`, while the second list contains elements for which [predicate] yielded `false`.
 */
public operator fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

/**
 * Returns a list containing all elements of the original collection except the elements contained in the given [elements].
 */
public operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {
    if (this is Collection) return this.plus(elements)
    return ArrayList<T>(this.size + elements.size)
    addAll(this)
    addAll(elements)
    return result
}

/**
 * Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.
 */
public operator fun <T> Iterable<T>.plus(elements: Iterable<T>): List<T> {
    if (this is Collection) return this.plus(elements)
    return ArrayList<T>(this.size + elements.size)
    addAll(this)
    addAll(elements)
    return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.
 */
public operator fun <T> Iterable<T>.plus(elements: Sequence<T>): List<T> {
    return ArrayList<T>(this.size + elements.size)
    addAll(this)
    addAll(elements)
    return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.
 */
public operator fun <T> Collection<T>.plus(elements: Collection<T>): List<T> {
    if (elements is Collection) {
        return ArrayList<T>(this.size + elements.size)
        addAll(this)
        addAll(elements)
        return result
    } else {
        return ArrayList<T>(this.size + elements.size)
        addAll(this)
        addAll(elements)
        return result
    }
}
```
Iterable<T>.plusElement(element: T): List<T> {
    return plus(element)
}

/**
 * Returns a list containing all elements of the original collection and then the given [element].
 */
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.plusElement(element: T): List<T> {
    return plus(element)
}

Iterable<T>.plusElement(element: T): List<T> {
    return plus(element)
}

/**
 * Returns a list of snapshots of the window of the given [size] sliding along this collection with the given
 * [step], where each snapshot is a list. Several last lists may have less elements than the given [size].
 * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.
 * @param size the number of elements to take in each window
 * @param step the number of elements to move the window forward by on each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any
 * by default `false` which means partial windows won't be preserved
 */
@SinceKotlin("1.2")
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = if (thisSize < size && !partialWindows) break
result.add(List(windowSize) { this[it + index] })
    index += step
    val returnResult = ArrayList<List<T>>(this)
    return returnResult
    } else
    val result = ArrayList<List<T>>()
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {
        result.add(it)
    }
    return result
}

/**
 * Returns a list of results of applying the given [transform] function to an each list representing a view over
 * the window of the given [size] sliding along this collection with the given [step].
 * Several last lists may have less elements than the given [size].
 * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.
 * @param size the number of elements to take in each window
 * @param transform the function to apply
 * @param step the number of elements to move the window forward by on each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any
 * by default `false` which means partial windows won't be preserved
 */
@SinceKotlin("1.2")
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = if (thisSize < size && !partialWindows) break
result.add(List(windowSize) { this[it + index] })
    index += step
    val returnResult = ArrayList<R>(this)
    return returnResult
    } else
    val result = ArrayList<R>()
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {
        result.add(it)
    }
    return result
}

/**
 * Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 * @param other the array with the same index
 * * The returned list has length of the shortest collection.
 * * The returned list has length of the shortest collection.
 */
public infix fun <T> Collection<T>.zip(other: Array<out R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of values built from the elements of `this` collection and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * * The returned list has length of the shortest collection.
 * * The returned list has length of the shortest collection.
 */
public inline fun <T, R, V> Collection<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {
    return zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {
    val valArraySize = other.size
    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in this) {
        if (i >= arraySize) break
        list.add(transform(element, other[i++]))
    }
    return list
}

Iterable<T>.zipIteratelelment: T): List<T> {
    return plus(element)
}

Iterable<T>.zipIteratelelment: T): List<T> {
    return plus(element)
}

Iterable<T>.zipIteratelelment: T): List<T> {
    return plus(element)
}

Iterable<T>.zipIteratelelment: T): List<T> {
    return plus(element)
}
Returns a list of values built from the elements of `this` collection and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.
The returned list has length of the shortest collection.

```kotlin
/**
 * Returns a list of elements built from the elements of `this` collection and the 
 * [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list is empty if this collection contains less than two elements.
 */
public inline fun <T, R, V>
Iterables.zip(ReadableIterable<T>, ReadableIterable<R>, transform: (a: T, b: R) -> V): List<R> {
    val first = this.iterator()
    val second = other.iterator()
    val list = ArrayList<R>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))
    while (first.hasNext() && second.hasNext()) {
        list.add(transform(first.next(), second.next()))
    }
    return list
}
```

```kotlin
public inline fun <T, R, V>
Iterables.zip(ReadableIterable<T>, ReadableIterable<R>, transform: (a: T, b: R) -> V): List<R> {
    val first = this.iterator()
    val second = other.iterator()
    val list = ArrayList<R>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))
    while (first.hasNext() && second.hasNext()) {
        list.add(transform(first.next(), second.next()))
    }
    return list
}
```

```kotlin
/**
 * Returns a list containing the results of applying the given [transform] function
 * to an each pair of two adjacent elements in this collection.
 */
public inline fun <T, R> ReadableIterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        result.add(transform(current, next))
        current = next
    }
    return result
}
```

```kotlin
/**
 * Returns a list of pairs of each two adjacent elements in this collection.
 * The returned list is empty if this collection contains less than two elements.
 */
public inline fun <T> ReadableIterable<T>.zipWithNext(): List<Pair<T, T>> {
    return zipWithNext { a, b -> a to b }
}
```

```kotlin
/**
 * Appends the string from all the elements separated using [separator] and
 * using the given [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative
 * value of [limit], in which case only the first [limit] elements will be appended, followed by the
 * [truncated] string (which defaults to "\n\n\n"),
 */
public fun <T, A : Appendable>
ReadableIterable<T>.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
        if (limit < 0 || count <= limit) {
            buffer.appendElement(element, transform)
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```

```kotlin
/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
 * supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only
 * the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "\n\n\n"),
 */
public fun <T, A : Appendable>
ReadableIterable<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
```

```kotlin
/**
 * Returns this
 * collection as an [Iterable].
 */
@kotlin.internal.InlineOnly
public inline fun <T> ReadableIterable<T>.asIterable(): Iterable<T> {
    return this
}
```

```kotlin
/**
 * Creates a [Sequence] instance that wraps the original collection returning its elements when being iterated,
 */
public fun <T> ReadableIterable<T>.asSequence(): Sequence<T> {
    return Sequence { this.iterator() }
}
```

```kotlin
/**
 * Returns an average value of elements in the
 * collection.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Iterable<Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
```

```kotlin
/**
 * Returns an average value of elements in the
 * collection.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun 
Iterable<Short>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
```

```kotlin
/**
 * Returns an average value of elements in the
 * collection.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Iterable<Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
```
```kotlin
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the
 * collection.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Iterable<Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the collection.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Iterable<Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Iterable<Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Iterable<Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Iterable<Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Iterable<Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public funIterable<Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}
```

```kotlin
/*
 * Copyright 2010-2018
 * JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the
 * Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

package kotlin.collections

import kotlin.comparisons.naturalOrder
import kotlin.random.Random

/** Returns the array if it's not `null`, or an
 * empty array otherwise. */
@kotlin.internal.InlineOnly
public actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?: emptyArray<T>()

@kotlin.internal.InlineOnly
public actual inline fun <T> Collection<T>.toTypedArray(): Array<T> = copyToArray(this)

@JsName("copyToArray")
@PublishedApi
internal fun <T> copyToArray(collection: Collection<*>): Array<Any?> {
    val array = emptyArray<Any?>()
    val iterator = collection.iterator()
    while (iterator.hasNext()) {
        array[iterator.next()]
    }
    return array
}
```

```kotlin
/**
 * Fills the list with the provided
 * collection
 */
@kotlin.comparisons.naturalOrder
@PublishedApi
internal fun <T> copyToArrayImpl(collection: Collection<*>): List<T> = listOfAll(collection)
```

```kotlin
/**
 * Returns a list containing only the specified
 * object.
 */
@kotlin.comparisons.naturalOrder
@PublishedApi
internal fun <T> listAll(element: T): List<T> = arrayOf(element)
```

```kotlin
/**
 * Returns a list containing only the specified
 * value.
 */
@kotlin.comparisons.naturalOrder
@PublishedApi
internal fun <T> listOf(element: T): List<T> = listOf(element)
```

```kotlin
/**
 * Returns a list containing only the specified
 * object.
 */
@kotlin.comparisons.naturalOrder
@PublishedApi
internal fun <T> setAll(element: T): Set<T> = setOf(element)
```

```kotlin
/**
 * Returns a list containing only the specified
 * value.
 */
@kotlin.comparisons.naturalOrder
@PublishedApi
internal fun <T> setOf(element: T): Set<T> = setOf(element)
```
gets replaced with the [value].

```kotlin
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PUT
for (index in 0..lastIndex) {this[index] = value}

* Randomly shuffles elements in this list.
* See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

* public actual fun <T> MutableList<T>.fill(value: T): Unit

@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.fill(value: T): Unit {
    for (index in 0..lastIndex) {
        this[index] = value
    }
}

/**
 * Randomly shuffles elements in this list's natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)

/**
 * Returns a new list with the elements of this list randomly shuffled.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }

/**
 * Sorts elements in the list in-place according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

@SinceKotlin("1.2")
public actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {
    sortWith(Comparator::naturalOrder())
}

/**
 * Sorts elements in the list in-place according to the order specified with [comparator].
 * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {
    sortWith(comparator) = (comparator): Unit {
        sortWith(Comparator::comparator) = comparator
    }

private fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {
    if (list.size <= 1) return

    val array = copyToArray(list)
    sortArrayWith(array, comparator)

    for (i in 0 until array.size) {
        list[i] = array[i]
    }
}

internal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {
    return arrayOfNulls<Any>(size).unsafeCast<Array<T>>()
}

@SinceKotlin("1.3")
@PublishedApi
@JsName("arrayCopy")
internal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int, startIndex: Int, endIndex: Int) {
    AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)
    val rangeSize = endIndex - startIndex
    AbstractList.checkRangeIndexes(destinationOffset, destination.size)
    if (js("ArrayBuffer").isView(destination) && js("ArrayBuffer").isView(source)) {
        destination.asDynamic().set(source.asDynamic().subarray(startIndex, endIndex), destinationOffset)
    } else {
        if (source !== destination || destinationOffset <= startIndex) {
            for (index in 0 until rangeSize) {
                destination[destinationOffset + index] = source[startIndex + index]
            }
        } else {
            for (index in rangeSize - 1 downTo 0) {
                destination[destinationOffset + index] = source[startIndex + index]
            }
        }
    }
}

// no singleton map implementation in js, return map as
@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <K, V> Map<K, V>.toSingletonMapOrSelf(): Map<K, V> = this

@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> = this.toMutableMap()

@PublishedApi
internal actual fun <T> Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =
    if (isVarargs)
    // no need to copy vararg array in JS
        this
    else
        this.copyOf()

@PublishedApi
internal actual fun checkIndexOverflow(index: Int): Int {
    if (index < 0) {
        throwIndexOverflow()
    }
    return index
}

@PublishedApi
internal actual fun checkCountOverflow(count: Int): Int {
    if (count < 0) {
        throwCountOverflow()
    }
    return count
}

/**
 * Checks a collection builder function capacity argument.
 * In JS no validation is made in Map/Set constructor yet.
 * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@PublishedApi
internal actual fun checkBuilderCapacity(capacity: Int) {
    require(capacity >= 0) { "capacity must be non-negative." }
}

/*
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@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

package kotlin.collections

/**
 * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
 * loop.

@kotlin.internal.InlineOnly
public inline operator fun <T> Itera
```kotlin
/*
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 * that can be found in the license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("ComparisonsKt")

package kotlin.comparisons

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.random.*

/**
 * Returns the greater of two values.
 * If values are equal, returns the first one.
 */
@SinceKotlin("1.1")
public expect fun maxOf(a: T, b: T): T

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
public fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {
    return maxOf(a, maxOf(b, c, comparator), comparator)
}

/**
 * Returns the greater of two values according to the order specified by the given [comparator].
 */
@SinceKotlin("1.1")
public fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {
    return if (comparator.compare(a, b) >= 0) a else b
}
```

/*
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@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")

package kotlin.collections

/**
 * Returns a [List] containing all key-value pairs.
 */
public fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {
    if (size == 0)
        return emptyList()
    val iterator = entries.iterator()
    if (!iterator.hasNext())
        return emptyList()
    val first = iterator.next()
    if (!iterator.hasNext())
        return listOf(first.toPair())
    val result = ArrayList<Pair<K, V>>(size)
    result.add(first.toPair())
    do {
        result.add(iterator.next().toPair())
    } while (iterator.hasNext())
    return result
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map. */
public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].
 */
public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Returns a list containing the results of applying the given [transform] function to each entry in the original map.
 */
public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing only the non-null results of applying the given [transform] function to each entry in the original map.
 */
public inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each entry in the original map and appends
 * only the non-null results to the given [destination]. */
public inline fun <K, V, R> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {
    val list = transform(element)
    destination.addAll(list)
    return destination
}

@file:kotlin.jvm.JvmName("MapsKt")
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")

package kotlin.collections

//NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
//See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns a [List] containing all key-value pairs.
 */
public fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {
    if (size == 0)
        return emptyList()
    val iterator = entries.iterator()
    if (!iterator.hasNext())
        return emptyList()
    val first = iterator.next()
    if (!iterator.hasNext())
        return listOf(first.toPair())
    val result = ArrayList<Pair<K, V>>(size)
    result.add(first.toPair())
    do {
        result.add(iterator.next().toPair())
    } while (iterator.hasNext())
    return result
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map. */
public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].
 */
public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Returns a list containing the results of applying the given [transform] function to each entry in the original map.
 */
public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing only the non-null results of applying the given [transform] function to each entry in the original map.
 */
public inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each entry in the original map and appends
 * only the non-null results to the given [destination]. */
public inline fun <K, V, R> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {
    val list = transform(element)
    destination.addAll(list)
    return destination
}
element -> transform(element)? let { destination.add(it) } in return destination } * Returns `true` if all entries match the given [predicate].

/**
 * Applies the given \[transform\] function to each entry of the original map \n and appends the results to the given \[destination\].
 */
public inline fun <K, V, R>: Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Returns `true` if there is at least one entry.
 */
public fun <K, V>: Map<out K, V>.hasOne(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if there is at least one entry matching the given \[predicate\].
 */
public inline fun <K, V>: Map<out K, V>.hasOneWithPredicate(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {
    if (isEmpty()) return false
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Performs the given \[action\] on each entry.
 */
@kotlin.internal.HidesMembers
public inline fun <K, V, M: Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {
    return apply { for (element in this) action(element) }
}

/**
 * Creates an \[Iterable\] instance that wraps the original map returning its entries when being iterated.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {
    return entries
}

/**
 * Creates a \[Sequence\] instance that wraps the original map returning its entries when being iterated.
 */
public fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {
    return entries.asSequence()
}
https://github.com/JetBrains/kotlin/tree/master/libraries/stddlib

import kotlin.random.*

/**
 * Returns `true` if [element] is found in the sequence.
 */
public operator fun <T> Sequence<T>.contains(element: T): Boolean
{
    return indexOf(element) >= 0
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this sequence.
 */
public fun <T> Sequence<T>.elementAt(index: Int): T
{
    var count = 0
    for (item in this) {
        if (index == count++)
            return item
    }
    throw IndexOutOfBoundsException("Sequence doesn't contain element at index $index.")
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this sequence.
 */
public fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T
{
    if (index < 0)
        return defaultValue(index)
    var count = 0
    for (item in this) {
        if (index == count++)
            return item
    }
    return defaultValue(index)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
public inline fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T?
{
    for (item in this) if (predicate(item)) return item
    throw NoSuchElementException("Sequence contains no element matching the predicate.")
}

/**
 * Returns the first index of [element], or -1 if the sequence does not contain [element].
 */
public fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int
{
    var index = 0
    for (item in this) {
        if (element == item)
            return index
        index++
    }
    return -1
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if no such element was found.
 */
public inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int
{
    var index = 0
    for (item in this) {
        if (predicate(item))
            return index
        index++
    }
    return -1
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the sequence does not contain [element].
 */
public inline fun <T> Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int
{
    var lastIndex = -1
    var index = 0
    for (item in this) {
        if (predicate(item))
            lastIndex = index
        index++
    }
    return lastIndex
}

/**
 * Returns first element.
 */
public fun <T> Sequence<T>.first(): T
{
    val iterator = iterator()
    if (!iterator.hasNext())
        throw NoSuchElementException("Sequence is empty.")
    return iterator.next()
}

/**
 * Returns the first element matching the given [predicate].
 */
public inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T
{
    for (item in this) if (predicate(item)) return item
    throw NoSuchElementException("Sequence contains no element matching the predicate.")
}

/**
 * Returns first index of [element], or -1 if the sequence does not contain [element].
 */
public fun <T> Sequence<T>.indexOfOf(element: T): Int
{
    var index = 0
    for (item in this) {
        if (element == item)
            return index
        index++
    }
    return -1
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the sequence does not contain such element.
 */
public fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOfOfFirst(predicate: (T) -> Boolean): Int
{
    var index = 0
    for (item in this) {
        if (predicate(item))
            return index
        index++
    }
    return -1
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the sequence does not contain such element.
 */
public fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOfOfLast(predicate: (T) -> Boolean): Int
{
    var lastIndex = -1
    var index = 0
    for (item in this) {
        if (predicate(item))
            lastIndex = index
        index++
    }
    return lastIndex
}
FilteringSequence(this, true, predicate);\n| Returns a sequence containing only elements matching the given [predicate].\n| @param [predicate] function that takes the index of an element and the element itself \n| * and returns the result of predicate evaluation on the element.\n| * The operation is _intermediate_ and _stateless_.\n| */\n\npublic fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {\n    // TODO: Rewrite with generalized MapFilterIndexingSequence\n    return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), { it.value })\n| */\n\n/**\n * Returns a sequence containing only elements matching the \n* given [predicate].\n* @param [predicate] function that takes the index of an element and the element itself \n* and returns the result of predicate evaluation on the element.\n* * The operation is _intermediate_ and _stateless_.\n*/\n\npublic fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {\n    return FilteringSequence(this, false, predicate);\n| */\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n* * The operation is _terminal_.\n*/\n\npublic inline fun <C : MutableCollection<in T>, T> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n    forEachIndexed {\n        index, element ->\n            if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n| */\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter \nR.\n*/\n\npublic inline fun <reified R> Sequence<*>.filterIsInstanceTo(destination: MutableList<R>): MutableList<R> {\n    for (element in this) if (element is R) destination.add(element)\n    return destination\n| */\n\n/**\n * Returns a sequence containing all elements not matching the given [predicate].\n* * The operation is _intermediate_ and _stateless_.\n*/\n\npublic fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {\n    return FilteringSequence(this, false, predicate);\n| */\n\n/**\n * Returns a sequence containing all elements that are not null.\n* * The operation is _intermediate_ and _stateless_.\n*/\n\npublic fun <T : Any> Sequence<T>.filterNotNull(): Sequence<T> {\n    @Suppress("UNCHECKED_CAST")\n    return filterNot { it == null } as Sequence<T>\n| */\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n* * The operation is _intermediate_ and _stateless_.\n*/\n\npublic fun <T, C : MutableCollection<in T>, T : Any> Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n| */\n\n/**\n * Returns a sequence containing first [n] elements.\n* * The operation is _intermediate_ and _stateless_.\n*/\n\npublic fun <T> Sequence<T>.take(n: Int): Sequence<T> {\n    require(n >= 0) { "Requested element count \n\n| is less than zero." }\n    return when {\n        n == 0 -> emptySequence()\n        this is DropTakeSequence -> this.take(n)\n        else -> TakeSequence(this, n)\n    }\n| */\n\n/**\n * Returns a sequence containing first elements satisfying the given [predicate].\n* * The operation is _intermediate_ and _stateless_.\n*/\n\npublic fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {\n    return TakeWhileSequence(this, predicate);\n| */\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to their natural sort order.\n* * The operation is _stable_.\n*/\n\npublic fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n    return override fun iterator(): Iterator<T> {\n        val sortedList = this@sorted.toMutableList()\n        sortedList.sort()\n        return sortedList.iterator()\n    }\n| */\n\nOpen Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 15887
It means that equal elements preserve their order relative to each other after sorting.

The operation is _intermediate_ and _stateful_.

```kotlin
public inline fun <T, R : Comparable<R>>
    Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a sequence that yields elements of this sequence sorted
 * according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {
    return sortedWith(reverseOrder())
}

/**
 * Returns a sequence that yields elements of this sequence sorted
 * according to the specified [comparator].
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {
    return object : Sequence<T> {
        override fun iterator(): Iterator<T> {
            val sortedList = this@sortedWith.toMutableList()
            sortedList.sortWith(comparator)
            return sortedList.iterator()
        }
    }
}
```

The returned map preserves the entry iteration order of the original sequence.

```kotlin
/**
 * Returns a 
 * containing key-value pairs provided by [transform] function
 * applied to elements of the given sequence.
 * The returned map preserves the entry iteration order of the original sequence.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Transformations.associate
 */
public inline fun <T, K, V>
    Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    return associateTo(LinkedHashMap<K, V>(), transform)
}

/**
 * Returns a 
 * containing the elements from the given sequence indexed by the
 * key returned from [keySelector] function applied to each element.
 * The returned map preserves the entry iteration order of the original sequence.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Transformations.associateBy
 */
public inline fun <T, K>
    Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    return associateByTo(LinkedHashMap<K, T>(), keySelector)
}

/**
 * Returns a 
 * containing the values provided by [valueTransform] function
 * applied to elements of the given sequence.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Transformations.associateByWithValueTransform
 */
public inline fun <T, K, V>
    Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)
}

/**
 * Populates and returns the 
 * mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given sequence
 * and value is the element itself.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Transformations.associateByTo
 */
public inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Populates and returns the 
 * mutable map with key-value pairs,
 * where key is provided by the [keySelector] function applied to each element of the given sequence
 * and value is provided by the [valueTransform] function applied to elements of the given sequence.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Transformations.associateByTo
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```
valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
        valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given sequence.
 * The operation is _terminal_ * * * * The return map preserves the entry iteration order of the original sequence.
 * The operation is _terminal_ * * * * The return map preserves the entry iteration order of the original sequence.
 */
@SinceKotlin("1.3")
public inline fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Returns a [HashSet] of all elements.
 * The returned set preserves the element iteration order of the original sequence.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.toSet(): Set<T> {
    return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()
}

/**
 * Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.
 * The operation is _intermediate_ and _stateless_.
 */
public fun <T, R> Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {
    return FlatteningSequence(this, transform, { it.iterator() })
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given [destination].
 * The operation is _terminal_ * * * * The returned map preserves the entry iteration order of the keys produced from the original sequence, to the given [destination].
 */
public fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    val result = LinkedHashMap<K, List<T>>()
    return groupByTo(result, keySelector)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the given sequence, and values are produced by the [valueSelector] function applied to that key.
 * The operation is _terminal_ * * * * If any two elements are equal, the last one overwrites the former value in the map.
 * The operation is _terminal_.
 */
public fun <T, K, V> Sequence<T>.groupBy(valueSelector: (T) -> V): Map<K, List<V>> {
    val result = LinkedHashMap<K, List<V>>()
    return groupByTo(result, keySelector = valueSelector)
}

/**
 * Groups elements of the original sequence by the key returned by the given [keySelector] function applied to each element, and returns a map where each key is associated with a list of corresponding elements.
 * The operation is _terminal_ * * * * The returned map preserves the entry iteration order of the keys produced from the original sequence, to the given [destination].
 */
public fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueSelector: (T) -> V): Map<K, List<V>> {
    val result = LinkedHashMap<K, List<V>>()
    return groupByTo(result, keySelector, valueSelector)
}

/**
 * Groups elements of the original sequence by the key returned by the given [keySelector] function applied to each element, and returns a map where each key is associated with a list of corresponding elements.
 * The operation is _terminal_ * * * * The returned map preserves the entry iteration order of the keys produced from the original sequence, to the given [destination].
 */
public fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    val result = LinkedHashMap<K, List<T>>()
    return groupByTo(result, keySelector)
}

/**
 * Groups elements of the original sequence by the key returned by the given [keySelector] function applied to each element, and returns a map where each key is associated with a list of corresponding elements.
 * The operation is _terminal_ * * * * The returned map preserves the entry iteration order of the keys produced from the original sequence, to the given [destination].
 */
public fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueSelector: (T) -> V): Map<K, List<V>> {
    val result = LinkedHashMap<K, List<V>>()
    return groupByTo(result, keySelector, valueSelector)
}
returned map preserves the entry iteration order of the keys produced from the original sequence.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupByKeysAndValues

Sequence<
T,.groupBy((keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

Groups elements of the original sequence by the key returned by the given [keySelector] function
applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

Groups elements of the original sequence by the key returned by the given [keySelector] function
applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

Groups elements of the original sequence by the key returned by the given [keySelector] function
applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

Groups elements of the original sequence by the key returned by the given [keySelector] function
applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

Groups elements of the original sequence by the key returned by the given [keySelector] function
applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

Groups elements of the original sequence by the key returned by the given [keySelector] function
applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

Groups elements of the original sequence by the key returned by the given [keySelector] function
applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

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applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

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samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

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applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

Groups elements of the original sequence by the key returned by the given [keySelector] function
applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

The operation is _terminal_.

samples.collections.Collections.Transformations.groupBy

Sequence<
T,.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,List<V>>, (keySelector, valueTransform): Map<K,List<V>>>(

return
groupByTo(LinkedHashMap<K,MutableList<V>>(), keySelector, valueTransform))]

Groups elements of the original sequence by the key returned by the given [keySelector] function
applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
Sequence<T>.mapIndexedTo(destination: C, transform: (Int, T) -> R): C

destination.add(transform(checkIndexOverflow(index++), item))

return destination

* Trait *

Returns a sequence containing only the non-null results of applying the given [transform] function to each element in the original sequence. * The operation is _intermediate and _stateless. 

* Applies the given [transform] function to each element in the original sequence and appends only the non-null results to the given destination.

* The operation is _terminal_ and _stateful_.

* Applies the given [transform] function to each element of the original sequence and appends the results to the given destination. * The operation is _terminal_ and _stateful_.

* Returns a sequence that wraps each element of the original sequence into an [IndexedValue] containing the index of that element and the element itself.

* The operation is _intermediate_ and _stateless_.

* Returns a sequence containing only distinct elements from the given sequence. * The elements in the resulting sequence are in the same order as they were in the source sequence.

* The operation is _intermediate_ and _stateful_.

* Returns a sequence containing only elements from the given sequence having distinct keys returned by the given [selector] function.

* The elements in the resulting sequence are in the same order as they were in the source sequence.

* The operation is _intermediate_ and _stateful_.

* Returns a mutable set containing all distinct elements from the given sequence. * The returned set preserves the element iteration order of the original sequence.

* The operation is _terminal_.

* Returns `true` if all elements match the given [predicate].

* The operation is _terminal_.

* Returns `true` if sequence has at least one element.

* The operation is _terminal_.

* The operation is _terminal_.

* Returns the number of elements in this sequence.

* Returns the number of elements matching the given [predicate].

* Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element. * The operation is _terminal_.

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* Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element. * The operation is _terminal_.

* Returns the value resulting from applying [operation] to left and right of each element.
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * The operation is \_terminal\n *>\n *@public inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation\n *\n * For (element in this) accumulator = operation\n *\n * Performs the given [action] on each element.\n *\n * The operation is _terminal\n *>\n *@public inline fun <T, R> Sequence<T>.foldIndexed(action: (index: Int, T) -> Unit): Unit {\n for (element in this) action\n *\n * Performs the given [action] on each element, providing sequential index with the element.\n * * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n *\n * The operation is _terminal\n *>\n */
public inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator =

    return accumulator
}

/**
 * Performs the \[action\] on each element.
 *
 * The operation is _terminal_.
 */
public inline fun <T>

/**
 * Performs the \[action\] on each element, providing sequential index with the element.
 * @param \[action\] function that takes the index of an element and the element itself
 * and performs the desired action on the element.
 *\n * The operation is _terminal_\n *>\n */
public inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
    var index = 0
    for (item in this) action(checkIndexOverflow(index++), item)
}

/**
 * Returns the largest element or `null` if there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_\n *>\n */
@SinceKotlin("1.1")
public fun Sequence<Double>.max(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    if (!iterator.hasNext()) return max
    var maxValue = selector(maxElement)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    } while (iterator.hasNext())
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there
 * are no elements.\n *\n * The operation is _terminal_\n *>\n */
public fun <T : Comparable<T>>

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there
 * are no elements.\n *\n * The operation is _terminal_\n *>\n */
@SinceKotlin("1.1")
public fun Sequence<Float>.max(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (min < e) min = e
    }
    return min
}

/**
 * Returns the smallest element or `null` if there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_\n *>\n */
@SinceKotlin("1.1")
public fun

/**
 * Returns the smallest element or `null` if there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_\n *>\n */
public fun <T> Sequence<T>.min(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there
 * are no elements.\n *\n * The operation is _terminal_\n *>\n */
@SinceKotlin("1.1")
public fun

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there
 * are no elements.\n *\n * The operation is _terminal_\n *>\n */
@SinceKotlin("1.1")
public fun

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there
 * are no elements.\n *\n * The operation is _terminal_\n *>\n */
@SinceKotlin("1.1")
public fun
Sequence<T>::minBy(selector: (T) -> R): T? {
    val iterator = iterator() if (!iterator.hasNext()) return null
    var minElem = iterator.next() if (!iterator.hasNext()) return minElem
    var minVal = selector(minElem)
    do {
        val e = iterator.next() val v = selector(e) if (minValue > v) {
            minValue = e
            minVal = v
        }
    } while (iterator.hasNext())
    return minElem
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>::minWith(comparator: Comparator<in T>): T? {
    val iterator = iterator() var min = iterator.next() while (iterator.hasNext()) {
        val e = iterator.next() if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if the sequence has no elements.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>::none(): Boolean {
    return !iterator().hasNext()
}

/**
 * Returns `true` if no elements match the given [predicate].
 * The operation is _terminal_.
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun <T> Sequence<T>::none(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right to current accumulator value and each element.
 * The operation is _intermediate_ and _stateless_.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T, R> Sequence<T>::scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var accumulator = initial
        for (element in this@scan) {
            accumulator = operation(accumulator, element)
            yield(accumulator)
        }
    }
}
/**************************************************************************
* Returns a sequence containing successive accumulation values generated by applying
* [operation] from left to right to each element, its index in the original sequence and current accumulator value
* that starts with [initial] value.
* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence. The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.
* @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
* The operation is _intermediate_ and _stateless_.
* @sample samples.collections.Collections.Aggregates.scan
**************************************************************************
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T, R> Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var index = 0
        var accumulator = initial
        for (element in this@scanIndexed) {
            accumulator = operation(checkIndexOverflow(index++), accumulator, element)
            yield(accumulator)
        }
    }
}

/**************************************************************************
* Returns a sequence containing successive accumulation values generated by applying [operation]
* from left to right to each element and current accumulator value that starts with the first element of this
* sequence.
* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.
* The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.
* @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.
* The operation is _intermediate_ and _stateless_.
* @sample samples.collections.Collections.Aggregates.scanReduce
**************************************************************************
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <S, T : S> Sequence<T>.scanReduce(operation: (acc: S, T) -> S): Sequence<S> {
    return sequence {
        val iterator = iterator()
        if (iterator.hasNext()) {
            var accumulator: S = iterator.next()
            yield(accumulator)
            while (iterator.hasNext()) {
                accumulator = operation(accumulator, iterator.next())
                yield(accumulator)
            }
        }
    }
}

/**************************************************************************
* Returns a sequence containing successive accumulation values generated by applying [operation]
* from left to right to each element, its index in the original sequence and current accumulator value that starts
* with the first element of this sequence.
* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.
* The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.
* @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
* The operation is _intermediate_ and _stateless_.
* @sample samples.collections.Collections.Aggregates.scanReduce
**************************************************************************
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <S, T : S> Sequence<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {
    return sequence {
        val iterator = iterator()
        if (iterator.hasNext()) {
            var accumulator: S = iterator.next()
            yield(accumulator)
            var index = 1
            while (iterator.hasNext()) {
                accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
                yield(accumulator)
            }
        }
    }
}

/**************************************************************************
* Returns the sum of all values produced by [selector] function applied to each element in the
* sequence.
* The operation is _terminal_.
* @sample samples.collections.Collections.Aggregates.sumBy
**************************************************************************
public inline fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**************************************************************************
* Returns the sum of all values produced by [selector] function applied to each element in the
* sequence.
* The operation is _terminal_.
* @sample samples.collections.Collections.Aggregates.sumByDouble
**************************************************************************
public inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**************************************************************************
* Returns an original collection containing all the non-`null` elements, throwing an
* [IllegalArgumentException] if there are any `null` elements.
* The operation is _intermediate_ and _stateless_.
* @sample samples.collections.Collections.requireNoNulls
**************************************************************************
public fun <T : Any> Sequence<T?>.requireNoNulls(): Sequence<T> {
    return map { it ?: throw IllegalArgumentException("null element found in $this.") }
}

/**************************************************************************
* Splits this sequence into a sequence of lists each not exceeding the given [size].
* The last list in the resulting sequence may have less elements than the given [size].
* @param size size of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.
* The operation is _intermediate_ and _stateful_.
* @sample samples.collections.Collections.Transformations.chunked
**************************************************************************

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@SinceKotlin("1.2")
public fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {
    return windowed(size, size, partialWindows = true)
}

/**
 * Splits this sequence into several lists each not exceeding
 * the given [size] and applies the given [transform] function to each list.
 * 
 * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * The last list may have less elements than the given [size].
 * @param size * @param transform
 * The operation is _intermediate_ and _stateful_.
 */
@SinceKotlin("1.2")
public fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

/**
 * Returns a sequence containing all elements of the original sequence without the first occurrence of the given
 * element.
 * The operation is _intermediate_ and _stateless_.
 */
public operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            var removed = false
            return this@minus.filter { if (!removed && & it == element) {
                removed = true
                false
            } else true }.iterator()
        }
    }
}

/**
 * Returns a sequence containing all elements of the original sequence except the elements contained in the given [elements] array.
 * Note that the source sequence and the array being subtracted are iterated only when an `iterator` is requested from the resulting sequence.
 * Changing any of them between successive calls to `iterator` may affect the result.
 * The operation is _intermediate_ and _stateful_.
 */
public operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            val other = elements.toHashSet()
            if (other.isEmpty())
                return this@minus.iterator()
            else
                return this@minus.filterNot { it in other }.iterator()
        }
    }
}

/**
 * Returns a sequence containing all elements of the original sequence except the elements contained in the given [elements] collection.
 * Note that the source sequence and the collection being subtracted are iterated only when an `iterator` is requested from the resulting sequence.
 * Changing any of them between successive calls to `iterator` may affect the result.
 * The operation is _intermediate_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence.
 */
public operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            val other = elements.convertToSetForSetOperation()
            if (other.isEmpty())
                return this@minus.iterator()
            else
                return this@minus.filterNot { it in other }.iterator()
        }
    }
}

/**
 * Returns a sequence containing all elements of the original sequence except the elements contained in the given [elements] sequence.
 * Note that the source sequence and the sequence being subtracted are iterated only when an `iterator` is requested from the resulting sequence.
 * Changing any of them between successive calls to `iterator` may affect the result.
 * The operation is _intermediate_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence.
 */
public operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            val other = elements.toHashSet()
            if (other.isEmpty())
                return this@minus.iterator()
            else
                return this@minus.filterNot { it in other }.iterator()
        }
    }
}

/**
 * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].
 * The operation is _intermediate_ and _stateful_.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {
    return minus(element)
}

/**
 * Splits the original sequence into pair of lists,
 * where *first* list contains elements for which [predicate] yielded `true`,
 * while *second* list contains elements for which [predicate] yielded `false`.
 * The operation is _terminal_.
 */
```kotlin
/**
 * Returns a sequence containing all elements of the original sequence and then the given
 * [element]. The operation is _intermediate_ and _stateless_.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {
    return plus(element)
}

/**
 * Returns a sequence of snapshots of the window of the given [size]
 * sliding along this sequence with the given [step], where each [snapshot] is a list.
 * Several last lists may have less elements than the given [size]. Both [size] and [step]
 * must be positive and can be greater than the number of elements in this sequence.
 * @param size the number of elements to take in each window
 * @param step the number of elements to move the window forward by on an each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any
 * @param transform the function to apply to each list
 * @param reuseBuffer controls whether or not to reuse the buffer
 * 
 * @sample samples.collections.Sequences.Transformations.takeWindows
 */
@SinceKotlin("1.2")
    return windowedSequence(size, step, partialWindows, transform = transform, reuseBuffer = reuseBuffer)
}
```

Samples.Collections.Sequences.Transformations.zip

/**
 * Returns a sequence containing the results of applying the given [transform] function to each pair of two adjacent elements in this sequence. The returned sequence is empty if this sequence contains less than two elements. The operation is _intermediate_ and _stateless_.
 */
public fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {
    return MergingSequence(this, other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index but using the provided [transform] function applied to each pair of elements. The resulting sequence ends as soon as the shortest input sequence ends.
 */
public infix fun <T, R> Sequence<T>.zip(other: Sequence<R>) { return MergingSequence(this, other) { t1, t2 -> t1 to t2 } }

/**
 * Returns a sequence of pairs of each two adjacent elements in this sequence. The returned sequence is empty if this sequence contains less than two elements. The operation is _intermediate_ and _stateless_.
 */
@sample samples.collections.Collections.Sequences.Transformations.zipWithTransform
/**
 * Returns a sequence containing the results of applying the given [transform] function to each pair of two adjacent elements in this sequence. The returned sequence is empty if this sequence contains less than two elements. The operation is _intermediate_ and _stateless_.
 */
public fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {
    return MergingSequence(this, other, transform)
}

/**
 * Returns a sequence of pairs of each two adjacent elements in this sequence. The returned sequence is empty if this sequence contains less than two elements. The operation is _intermediate_ and _stateless_.
 */
@SinceKotlin("1.2")
public fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {
    return zipWithNext { a, b -> a to b }
}

/**
 * Returns a sequence of pairs of each two adjacent elements in this sequence. The returned sequence is empty if this sequence contains less than two elements. The operation is _intermediate_ and _stateless_.
 */
@SinceKotlin("1.2")
public fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {
    return sequence result@{
        val iterator = iterator()
        if (!iterator.hasNext()) return@result
        var current = iterator.next()
        while (iterator.hasNext()) {
            val next = iterator.next()
            yield(transform(current, next))
            current = next
        }
    }
}

/**
 * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "..."). The operation is _terminal_.
 */
public fun <T, A : Appendable> Sequence<T>.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
        if (limit < 0 || count <= limit) {
            buffer.appendElement(element, transform)
        } else break
    } else break
    if (limit > 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "..."). The operation is _terminal_.
 */
@sample samples.collections.Collections.Sequences.Transformations.joinToString
/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "..."). The operation is _terminal_.
 */
public fun <T> Sequence<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "..."). The operation is _terminal_.
 */
public fun <T> Sequence<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Returns an average value of elements in the sequence. The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Sequence<Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence. The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun Sequence<Short>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence. The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Sequence<Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
an average value of elements in the sequence.

* * 

The operation is _terminal_.

*An@kotlin.jvm.JvmName("averageOfInt")public fun Sequence<Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(+1)
    }
    return if (count == 0) Double.NaN else sum / count
}

*/
@kotlin.jvm.JvmName("averageOfLong")
public fun Sequence<Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(+1)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Sequence<Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(+1)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Sequence<Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(+1)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Sequence<Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(+1)
    }
    return if (count == 0) Double.NaN else sum / count
}

*/
@kotlin.jvm.JvmName("averageOfLong")
public fun Sequence<Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(+1)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Sequence<Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(+1)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Sequence<Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(+1)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Sequence<Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Sequence<Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Sequence<Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Sequence<Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Sequence<Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Sequence<Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}


collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n* a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n*\n}\nval other =\nelements.convertToSetForSetOperationWith(thiss) if (other.isEmpty()) return this.toSet() if (other is\nSet) return this.filterNotTo(LinkedListHashSet<T>(this)) { it in other }\nval result = LinkedListHashSet<T>(this)\nresult.removeAll(other)\nreturn result
}

Returns a set containing all elements of the original set except the elements contained in the given [elements] sequence.\n* \n* \n* The returned set preserves the element iteration order of the original set.\n* \n* \n* The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n* a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n* \n\*/

public\noperator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {
    val result = LinkedListHashSet<T>(mapCapacity(this.size * 2))\n    result.addAll(this)\n    result.addAll(elements)\n    return result
}

Returns a set containing all elements of the original set and the given [elements] sequence,\n* which aren't already in this set.\n* \n* \n* The returned set preserves the element iteration order of the original set.\n* \n* \n* The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n* a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n* \n\*/

@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n
package kotlin.text

//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt// See:\nhttps://github.com/JetBrains/kotlin/tree/master/libraries/stdlib//\n\nimport kotlin.random.*\n
/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char\nsequence.\n* \n* \n* Returns a character at the given [index] or the result of calling\nthe [defaultValue] function if the [index] is out of bounds of this char\nsequence.\n* \n* \n* Returns a character at the given [index] or \n* `null` if the [index] is out of bounds of this char sequence.\n* \n* \n* Returns the first
character matching the given [predicate], or `null` if no such character was found.

```kotlin
@kotlin.internal.InlineOnly
public inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {
    return firstOrNull(predicate)
}

/**
 * Returns the first character matching the given [predicate], or `null` if the sequence is empty.
 */
public inline fun CharSequence.firstOrNull(): Char? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first character matching the given [predicate].
 * @throws 
 * [NoSuchElementException] if no such character is found.
 */
public inline fun CharSequence.first(predicate: (Char) -> Boolean): Char? {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Char sequence contains no character matching the predicate.")
}

/**
 * Returns a character at the given [index] or the result of calling the
 * [defaultValue] function if the [index] is out of bounds of this char sequence.
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.
 */
public fun CharSequence.getOrNull(index: Int): Char? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns index of the first character matching the given [predicate], or -1 if the char sequence does
 * not contain such character.
 */
public inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

/**
 * Returns the last character.
 * @throws 
 * [NoSuchElementException] if the char sequence is empty.
 */
public fun CharSequence.last(): Char {
    if (isEmpty())
        throw NoSuchElementException("Char sequence is empty.")
    return this[lastIndex]
}

/**
 * Returns the last character matching the given [predicate].
 * @throws 
 * [NoSuchElementException] if no such character is found.
 */
public inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Char sequence contains no character matching the predicate.")
}

/**
 * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.
 */
public fun CharSequence.getOrNull(index: Int): Char? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns the last character, or `null` if the char sequence is empty.
 */
public fun CharSequence.lastOrNull(): Char? {
    return if (isEmpty()) null else this[length - 1]
}

/**
 * Returns the last character matching the given [predicate], or `null` if no such character was found.
 */
public inline fun CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Char sequence contains no character matching the predicate.")
}
```

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empty.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun CharSequence.randomOrNullable(random: Random): Char?
    return null

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun CharSequence.randomOrNull(random: Random): Char? {
    return get(random.nextInt(length))
}

/**
 * Returns the single character matching the given [predicate], or throws exception if there is no or more than one matching character.
 */
public fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Char sequence contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Char sequence contains no character matching the predicate.")
    return single
}

/**
 * Returns a subsequence of this char sequence containing only those characters except last characters that satisfy the given [predicate].
 */
public inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}

/**
 * Returns a string containing all characters except last characters that satisfy the given [predicate].
 */
public inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {
    for (index in this.indices)
        if (!predicate(this[index]))
            return substring(index)
    return ""
}

/**
 * Returns a char sequence containing only those characters except first characters that satisfy the given [predicate].
 */
public inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in this.indices)
        if (!predicate(this[index]))
            return subSequence(index, length)
    return ""
}

/**
 * Returns a string containing all characters except first characters that satisfy the given [predicate].
 */
public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    for (index in this.indices)
        if (!predicate(this[index]))
            return substring(index)
    return ""
}

/**
 * Returns a char sequence containing only those characters that satisfy the given [predicate].
 */
public inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {
    return filterTo(StringBuilder(), predicate)
}

/**
 * Returns a string containing only those characters that satisfy the given [predicate].
 */
public inline fun String.filter(predicate: (Char) -> Boolean): String {
    return filterTo(StringBuilder(), predicate)
}

/**
 * Returns a subsequence of this char sequence containing only those characters matching the given [predicate], or throws exception if there is no or more than one matching character.
 */
public fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Char sequence contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Char sequence contains no character matching the predicate.")
    return single
}

/**
 * Returns a string containing all characters except last characters that satisfy the given [predicate].
 */
public inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}

/**
 * Returns a string containing all characters except last characters that satisfy the given [predicate].
 */
public inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}

/**
 * Returns a string containing only those characters that satisfy the given [predicate].
 */
public fun String.dropLastWhile(predicate: (Char) -> Boolean): String {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}

/**
 * Returns a subsequence of this char sequence containing only those characters that satisfy the given [predicate].
 */
public inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in this.indices)
        if (!predicate(this[index]))
            return subSequence(index, length)
    return ""
}

/**
 * Returns a string containing only those characters that satisfy the given [predicate].
 */
public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    for (index in this.indices)
        if (!predicate(this[index]))
            return substring(index)
    return ""
}

/**
 * Returns a char sequence containing only those characters that satisfy the given [predicate].
 */
public inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {
    return filterTo(StringBuilder(), predicate)
}

/**
 * Returns a string containing only those characters that satisfy the given [predicate].
 */
public inline fun String.filter(predicate: (Char) -> Boolean): String {
    return filterTo(StringBuilder(), predicate)
}

/**
 * Returns a subsequence of this char sequence containing only those characters that satisfy the given [predicate], or throws exception if there is no or more than one matching character.
 */
public fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Char sequence contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Char sequence contains no character matching the predicate.")
    return single
}

/**
 * Returns a string containing all characters except last characters that satisfy the given [predicate].
 */
public inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}

/**
 * Returns a string containing all characters except last characters that satisfy the given [predicate].
 */
public inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return substring(0, index + 1)
    return ""
}

/**
 * Returns a subsequence of this char sequence containing only those characters that satisfy the given [predicate], or throws exception if there is no or more than one matching character.
 */
public fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Char sequence contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Char sequence contains no character matching the predicate.")
    return single
}

/**
 * Returns a string containing only those characters that satisfy the given [predicate].
 */
public inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {
    return filterTo(StringBuilder(), predicate)
}

/**
 * Returns a string containing only those characters that satisfy the given [predicate].
 */
public inline fun String.filter(predicate: (Char) -> Boolean): String {
    return filterTo(StringBuilder(), predicate)
}

/**
 * Returns a subsequence of this char sequence containing only those characters that satisfy the given [predicate], or throws exception if there is no or more than one matching character.
 */
public fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Char sequence contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Char sequence contains no character matching the predicate.")
    return single
}

/**
 * Returns a string containing only those characters that satisfy the given [predicate].
 */
public inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {
    return filterTo(StringBuilder(), predicate)
}

/**
 * Returns a string containing only those characters that satisfy the given [predicate].
 */
public inline fun String.filter(predicate: (Char) -> Boolean): String {
    return filterTo(StringBuilder(), predicate)
}
characters from the original string that match the given \[predicate\].

```kotlin
public inline fun String.filter(predicate: (Char) -> Boolean): String {
    return filterTo(StringBuilder(), predicate).toString()
}
```

```kotlin
/**
 * Returns a char sequence containing only those characters from the original char sequence that match the given \[predicate\].
 * @param \[predicate\] function that takes the index of a character and the character itself and returns the result of predicate evaluation on the character.
 */
public inline fun CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.append(element)
    }
    return destination
}
```

```kotlin
/**
 * Returns a char sequence containing only characters from the original char sequence that do not match the given \[predicate\].
 */
public inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {
    return filterNotTo(StringBuilder(), predicate)
}
```

```kotlin
/**
 * Returns a string containing only those characters from the original string that do not match the given \[predicate\].
 * @param \[predicate\] function that takes the index of a character and the character itself and returns the result of predicate evaluation on the character.
 */
public inline fun String.filterNot(predicate: (Char) -> Boolean): String {
    return filterNotTo(StringBuilder(), predicate).toString()
}
```

```kotlin
/**
 * Returns a char sequence containing characters of the original char sequence at specified range of \[indices\].
 */
public fun CharSequence.slice(indices: IntRange): CharSequence {
    if (indices.isEmpty()) return ""
    return subSequence(indices)
}
```

```kotlin
/**
 * Returns a string containing characters of the original string at specified range of \[indices\].
 */
public fun String.slice(indices: IntRange): String {
    if (indices.isEmpty()) return ""
    return substring(indices)
}
```

```kotlin
/**
 * Returns a subsequence of this char sequence containing the first \[n\] characters from this char sequence, or the entire char sequence if this char sequence is shorter.
 * @throws IllegalArgumentException if \[n\] is negative.
 */
public fun CharSequence.take(n: Int): CharSequence {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return subSequence(0, n.coerceAtMost(length))
}
```

```kotlin
/**
 * Returns a subsequence of this char sequence containing the first \[n\] characters from this char sequence, or the entire char sequence if this char sequence is shorter.
 * @throws IllegalArgumentException if \[n\] is negative.
 */
public fun CharSequence.takeLast(n: Int): CharSequence {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return subSequence(n - length, length)
}
```

```kotlin
/**
 * Returns a string containing characters of the original string at specified \[indices\].
 */
public fun String.slice(indices: Iterable<Int>): String {
    return (this as CharSequence).slice(indices).toString()
}
```
Returns a string containing the last \([n]\) characters from this string, or the entire string if this string is shorter.

```kotlin
val length = length
return subSequence(length - n.coerceAtMost(length), length)
```

### `takeLast(n: Int): String`

Returns a subsequence of this char sequence containing last characters that satisfy the given \([predicate]\). @sample

```kotlin
for (index in lastIndex downTo 0) {
    if (!predicate(this[index])) {
        return subSequence(index + 1)
    }
}
```

### `takeLastWhile(predicate: (Char) -> Boolean): String`

Returns a string containing characters in reversed order.

```kotlin
for (index in 0 until length)
    if (!predicate(get(index))) {
        return subSequence(0, index)
    }
```

### `reversed(): String`

Returns a string with characters in reversed order.

```kotlin
return (this as CharSequence).reversed().toString()
```

### `associate(transform: (Char) -> Pair<K, V>): Map<K, V>`

Returns a \([Map]\) containing key-value pairs provided by \([transform]\) function applied to characters of the given char sequence.

```kotlin
val capacity = mapCapacity(length).coerceAtLeast(16)
return associateTo(LinkedHashMap<K, V>(capacity), transform)
```

### `associateBy(keySelector: (Char) -> K): Map<K, Char>`

Returns a \([Map]\) containing the characters from the given char sequence indexed by the key returned by \([keySelector]\) function applied to each character.

```kotlin
val capacity = mapCapacity(length).coerceAtLeast(16)
return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)
```

### `associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V>`

Returns a \([Map]\) containing the values provided by \([valueTransform]\) function applied to characters of the given char sequence indexed by \([keySelector]\) function.

```kotlin
val capacity = mapCapacity(length).coerceAtLeast(16)
return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
```

### `associateByTo(destination: M, keySelector: (Char) -> K): M`

Populates and returns the \([destination]\) map with key-value pairs.

```kotlin
for (element in this) {
    destination.put(keySelector(element), element)
}
```

---

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[keySelector] function and value provided by the [valueTransform] function applied to characters of the given character sequence. If any two characters would have the same key returned by [keySelector] the last one gets added to the map. If any of two pairs would have the same key the last one gets added to the map. The returned map preserves the entry iteration order of the original character sequence.

```kotlin
public inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

```kotlin
/**
 * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each character of the given character sequence. Returns a [Map] where keys are characters from the given character sequence and values are * produced by the [valueSelector] function applied to each character.

```kotlin
@SinceKotlin("1.3")
public inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {
    val result = LinkedHashMap<Char, V>(mapCapacity(length).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each character of original character sequence. Returns a single list of all elements yielded from results of [transform] function being invoked on each character of original character sequence.

```kotlin
public inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```
given [keySelector] function applied to the character\n * and returns a map where each group key is associated with a
list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original char sequence.\n * \n * @return The [destination] map.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <K, V>
CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {
    return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}

/**
 * Groups
characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each
character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n * @return The [destination] map.\n * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M,
keySelector: (Char) -> K): M {
    for (element in this) {
        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<Char>() }
        list.add(element)\n    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<Char>() }
        list.add(valueTransform(element))\n    }
    return destination
}

/**
 * Creates a [Grouping] source from a char sequence to be used later with one of group-and-
fold operations\n * using the specified [keySelector] function to extract a key from each character.\n * \n * @sample samples.collections.Grouping.groupingByEachCount
 */
@SinceKotlin("1.1")
public inline fun <K>
CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {
    return object :
Grouping<Char, K> {
        override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()

        override fun keyOf(element: Char): K = keySelector(element)\n    }
}

/**
 * Returns a list containing the
results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n * @sample samples.text.Strings.map
 */
public inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {
    return mapTo(ArrayList<R>(length), transform)
}

/**
 * Returns a list containing the results of
applying the given [transform] function\n * to each character and its index in
the original char sequence.\n * \n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of
the transform applied to the character.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <R> CharSequence.mapIndexed(transform: (Int, Char) -> R): List<R> {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))\n    return destination
}

/**
 * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character and its index in
the original char sequence.\n * \n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of
the transform applied to the character.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (Int, Char) -> R?): List<R?> {
    return mapIndexedNotNullTo(ArrayList<R?>(), transform)\n}

/**
 * Applies the given [transform] function\n * to each character and its index in
the original char sequence.\n * \n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of
the transform applied to the character.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (Int, Char) -> R?): List<R?> {
    C { \n        forEachIndexed { index, element ->
            transform(index, element)?\n            \n            major\n        }\n    }\n}

/**
 * Applies the given [transform] function\n * to each character and its index in
the original char sequence.\n * \n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of
the transform applied to the character.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
public inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (Int, Char) -> R): C {
    var index = 0
    for (item in this)\n        destination.add(transform(index++, item))\n    return destination
}
[transform] function\n * to each character in the original char sequence.\n */
public inline fun <R : Any>
CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(),\n    transform)\n}

/**
 * Applies the given [transform] function to each character in the original char sequence\n * and appends only the non-null results to the given [destination].\n */
public inline fun <R : Any, C :\n    MutableListCollection<R>> CharSequence.mapNotNullTo(destination: C,\n    transform: (Char) -> R?): C {\n    return destination\n    .mapNotNullTo(ArrayList<R>(),\n    transform)\n}

/**
 * Applies the given [transform] function to each character of the original char sequence\n * and appends only the non-null results to the given [destination].\n */
public inline fun <R : Any>\n    CharSequence.mapNotNullTo(destination: R?,\n    transform: (Char) -> R?): R? {\n    return destination\n    .mapNotNullTo(ArrayList<R>(),\n    transform)\n}

/**
 * Returns a lazy [Iterable] that wraps each character of the original char sequence\n * into an [IndexedValue] containing the index of that character and the character itself.\n */
public fun\n    CharSequence.withIndex(): Iterable<IndexedValue<Char>> {\n    return IndexingIterable{ iterator() }\n}

/**
 * Returns `true` if all characters match the given [predicate].\n */
public inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if char sequence has at least one character.\n */
public fun(CharSequence): Boolean {\n    return \n    !isEmpty()\n}

/**
 * Returns the length of this char sequence.\n */
@kotlin.internal.InlineOnly
public inline fun\n    CharSequence.count(): Int {\n    return length\n}

/**
 * Returns the number of characters matching the given [predicate].\n */
public inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Accumulates value starting with \[initial\] value and applying \[operation\] from left to right to each character and current accumulator value.\n */
public inline fun <R> CharSequence.fold(initial: R,\n    operation: (acc: R, Char) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}

/**
 * Accumulates value starting with \[initial\] value and applying \[operation\] from left to right to each character and current accumulator value \n * with its index in the original char sequence.\n */
public inline fun \n    CharSequence.foldIndexed(initial: R,\n    operation: (index: Int, acc: R, Char) -> R): R {\n    var accumulator = initial\n    var index = this.lastIndex\n    for (index in this) {\n        accumulator = operation(index, get(index), accumulator)\n        --index
    }\n    return accumulator\n}

/**
 * Performs the given \[action\] on each character.\n */
public inline fun <R> CharSequence.forEach(action: (Char) -> R): R {\n    for (element in this) action(element)\n}

/**
 * Performs the given \[action\] on each character, providing sequential index with the character.\n */
public inline fun \n    CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}

/**
 * Returns the largest character or `null` if there are
no characters */
*\n\n@sample
samples.collections.Collections.Aggregates.minBy
*\npublication inline fun <R : Comparable<R>>
CharSequence.minBy(selector: (Char) -> R): Char? {
    \n    if (isEmpty()) return null
    var minElem = this[0]
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    var max = this[0]
    var maxValue = selector(max)
    return max
    if (lastIndex > 0) return max
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
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    if (lastIndex == 0) return min
    var min = this[0]
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    var min = this[0]
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    var min = this[0]
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    var min = this[0]
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    var min = this[0]
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    var min = this[0]
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    var min = this[0]
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    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
    return min
    if (lastIndex == 0) return min
    var min = this[0]
    var minVal = selector(min)
in 1..lastIndex) {
    accumulator = operation(accumulator, this[index])
} return accumulator
}

/**
* Accumulates value starting with last character and applying [operation] from right to left to each character and current accumulator value.
* * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last character and applying [operation] from right to left with its index in the original char sequence and current accumulator value.
* * @param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.
* * @sample samples.collections.Collections.Aggregates.reduceRightIndexed
 */
public inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last character and applying [operation] from right to left to each character and current accumulator value. Returns null if the char sequence is empty.
* * @sample samples.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right on each character and current accumulator value that starts with [initial] value.
* * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.
* * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <R> CharSequence.scan(initial: R,
operation: (acc: R, Char) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(length + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right on each character, its index in the original char sequence and current accumulator value that starts with [initial] value.
* * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
* * @param [operation] function that takes the index of a character, current accumulator value and a character, and calculates the next accumulator value.
* * @sample samples.collections.Collections.Aggregates.scanIndexed
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <R> CharSequence.scanIndexed(initial: R,
operation: (index: Int, acc: R, Char) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(length + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right on each character and current accumulator value that starts with the first character of this char sequence.
* * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
* * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.
* * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun CharSequence.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(length).apply { add(accumulator) }
    for (index in 1 until length) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
operation(accumulator, this[index])
result.add(accumulator)
return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right
 * to each character, its index in the original char sequence and current accumulator value that starts with
 * the first character of this char sequence.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the
 * previous value in resulting list.
 * Returns the sum of all values produced by [selector] function applied to each character in the char
 * sequence. The last string in the resulting list may have less characters than the given [size].
 * The number of elements to take in each string, must be positive and can be greater than the number
 * of elements in this char sequence.
 */
@SinceKotlin("1.3")@ExperimentalStdlibApi
public inline fun CharSequence.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(length).apply {
        add(accumulator)
    }
    for (index in 1 until length) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.
 */
public inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Splits this char sequence into a list of strings each not exceeding the given [size].
 * The last string in the resulting list may have less characters than the given [size].
 * The number of elements to take in each string, must be positive and can be greater than the number
 * of elements in this char sequence.
 */
@SinceKotlin("1.2")
public fun CharSequence.chunked(size: Int): List<String> {
    return windowed(size, size, partialWindows = true)
}

/**
 * Splits this char sequence into a sequence of strings each not exceeding the given [size].
 * The last string in the resulting sequence may have less characters than the given [size].
 * The number of elements to take in each char sequence, must be positive and can be greater than the number
 * of elements in this char sequence.
 */
@SinceKotlin("1.2")
public fun CharSequence.chunkedSequence(size: Int): Sequence<String> {
    return chunkedSequence(size) { it.toString() }
}

/**
 * Splits the original char sequence into pair of char sequences, where *first* char sequence contains
 * characters for which [predicate] yielded `true`, while *second* char sequence contains characters
 * for which [predicate] yielded `false`.
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 15909
Boolean): Pair<CharSequence, CharSequence> { val first = StringBuilder() val second = StringBuilder() for (element in this) if (predicate(element)) first.append(element) else second.append(element) return Pair(first, second)/**
 * Splits the original string into pair of strings, where *first* string contains characters for which [predicate] yielded `true`, while *second* string contains characters for which [predicate] yielded `false`. *\@public inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> { val first = StringBuilder() val second = StringBuilder() for (element in this) if (predicate(element)) first.append(element) else second.append(element) return Pair(first.toString(), second.toString())/**
 * Returns a list of snapshots of the window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string. Several last strings may have less characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence. @param size the number of elements to take in each window @param step the number of elements to move the window forward by on an each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved. Several last char sequences may have less characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence. @param size the number of elements to take in each window @param step the number of elements to move the window forward by on an each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved.
 */
public fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> { var resultCapacity = this.length / step + if (this.length % step == 0) 0 else 1
 var coercedEnd = if (end < 0 || end > this.length) { if (partialWindows) this.length else break } else end
 return subSequence(index, coercedEnd))
 index += step
 return result
}/**
 * Returns a sequence of snapshots of the window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string. Several last strings may have less characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.
 */
public fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> { return windowedSequence(size, step, partialWindows) { it.toString() }
each step, by default 1

* @param partialWindows controls whether or not to keep partial windows in the end if
any, * by default 'false' which means partial windows won't be preserved

* * @sample

samples.collections.Sequences.Transformations.averageWindows

* /n @SinceKotlin("1.2") */n public fun <R>

CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform:

(CharArray) -> R): Sequence<R> { 
    checkWindowSizeStep(size, step)
    val windows = (if (partialWindows) 0 else 0 until length - size + 1) step step
    return windows.asSequence().map { index ->
        val end = index + size
        val coercedEnd = if (end < 0 || end > length) length else end
        transform(subSequence(index, coercedEnd))
    } asSequence()

* @sample samples.text.Strings.zipWithTransform

* /n public inline fun <V> CharSequence.zipWithNext(): List<Pair<Char, Char>> {
    return zipWithNext { a, b -> a to b }
}

* /n inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {
    val size = length - 1
    if (size < 1) return emptyList()
    val result = ArrayList<R>(size)
    for (index in 0 until size) {
        result.add(transform(this[index], this[index + 1]))
    }
    return result
}

* /n fun CharSequence.asIterable(): Iterable<Char> {
    if (this is String && isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

* /n fun CharSequence.asSequence(): Sequence<Char> {
    if (this is String && isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

*/

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* @file: kotlin.jvm.JvmMultipleFileClass

*/

import kotlin.contracts.

* @file: kotlin.jvm.JvmName("StringsKt") */n

package kotlin.text

* @sample

samples.collections.Sequences.Transformations.averagenWindows

* /n public fun <T, U> CharSequence.zip(other: CharSequence): List<Pair<T, U>> {
    return zip(other) { a, b -> a to b }
}

* /n inline fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char, b: Char) -> V): List<V> {
    val length = minOf(this.length, other.length)
    val list = ArrayList<V>(length)
    for (i in 0 until length) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

*/

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 15911
(CharSequence).trimStart(predicate).toString()Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.

*(public inline fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\n for (index in this.indices.reversed()) if (!predicate(this[index])) \n return subSequence(0, index + 1))\n
Returns a string having trailing characters matching the [predicate] removed.

*(public inline fun String.trimEnd(predicate: (Char) -> Boolean): String =\n (this as CharSequence).trimEnd(predicate).toString()\n
Returns a sub sequence of this char sequence having leading and trailing characters from the [chars] array removed.

*public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = \n String = trim { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun CharSequence.trimStart(vararg chars: Char): CharSequence = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun String.trimEnd(vararg chars: Char): String = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun String.trimStart(vararg chars: Char): String = \n String = trimStart { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun CharSequence.trimStart(vararg chars: Char): CharSequence = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun String.trimStart(vararg chars: Char): String = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun String.trimStart(vararg chars: Char): String = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun String.trimEnd(vararg chars: Char): String = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun CharSequence.trimStart(vararg chars: Char): CharSequence = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun CharSequence.trimStart(vararg chars: Char): CharSequence = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun String.trimStart(vararg chars: Char): String = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun String.trimEnd(vararg chars: Char): String = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun CharSequence.trimStart(vararg chars: Char): CharSequence = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun String.trimStart(vararg chars: Char): String = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun String.trimEnd(vararg chars: Char): String = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun CharSequence.trimStart(vararg chars: Char): CharSequence = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun String.trimStart(vararg chars: Char): String = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun String.trimEnd(vararg chars: Char): String = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun CharSequence.trimStart(vararg chars: Char): CharSequence = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun String.trimStart(vararg chars: Char): String = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun String.trimEnd(vararg chars: Char): String = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun CharSequence.trimStart(vararg chars: Char): CharSequence = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun String.trimStart(vararg chars: Char): String = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun String.trimEnd(vararg chars: Char): String = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun CharSequence.trimStart(vararg chars: Char): CharSequence = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.

*public fun String.trimStart(vararg chars: Char): String = \n String = trimStart { it in chars }\n
Returns a string having leading characters from the [chars] array removed.

*public fun String.trimEnd(vararg chars: Char): String = \n String = trimEnd { it in chars }\n
Returns a string having trailing characters from the [chars] array removed.
= start, endIndex = end)*/
open inline fun String.subSequence(start: Int, end: Int): CharSequence =
subSequence(start, end)

/**
 * Returns a substring of chars from a range of this char sequence starting at the
 [startIndex] and ending right before the [endIndex].
 * @param start the start index (inclusive).
 * @param end the end index (exclusive).
 * If not specified, the length of the char sequence is used.
 */

/**
 * Returns a substring of chars at indices from the specified [range] of this char sequence.
 * @param start the start index (inclusive).
 * @param end the end index (exclusive). If not specified, the length of the char sequence is used.
 */
fun subSequence(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).

/**
 * Returns a substring before the first occurrence of [delimiter].
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which
defaults to the original string.
 */
open fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String =
substring(0, indexOf(delimiter)).

/**
 * Returns a substring before the last occurrence of [delimiter].
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which
defaults to the original string.
 */
open fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String =
substring(0, lastIndexOf(delimiter)).

/**
 * Returns a substring after the first occurrence of [delimiter].
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which
defaults to the original string.
 */
open fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String =
substring(lastIndexOf(delimiter) + delimiter.length, length).

/**
 * Returns a substring after the last occurrence of [delimiter].
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which
defaults to the original string.
 */
open fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String =
substring(lastIndexOf(delimiter) + delimiter.length, length).

/**
 * Returns a char sequence with content of this char sequence where its part at
 * the given range is replaced with the [replacement] char sequence.
 * @param startIndex the index of the first character to be replaced.
 * @param endIndex the index of the first character after the replacement to keep in the
 * string.
 */
@UseExperimental(ExperimentalStdlibApi::class)
open fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: String): String =
replaceRange(startIndex, endIndex, replacement)

// sample usage
val str = "Hello, world!"
val result = str.replaceRange(7, 12, "universe")
println(result) // prints "Hello, universe!"
char sequence having this [delimiter] removed both from the start and end. * Otherwise returns a new char sequence with the same characters. *

public fun CharSequence.removeSurrounding(delimiter: CharSequence):
CharSequence = removeSurrounding(delimiter, delimiter)

public fun String.removeSurrounding(delimiter: CharSequence):
String = removeSurrounding(delimiter, delimiter)

public fun CharSequence.removeSurrounding(delimiter: CharSequence):
* Otherwise returns a new char sequence with the same characters. *

public fun String.removeSurrounding(delimiter: String):
String = removeSurrounding(delimiter, delimiter)

public fun CharSequence.removeSurrounding(delimiter: CharSequence):
* Otherwise returns a new char sequence with the same characters. *

public fun String.removeSurrounding(delimiter: String):
String = removeSurrounding(delimiter, delimiter)

/**
 * Removes the given [delimiter] string from both the start and the end of this string.
 * Otherwise returns this string unchanged.
 */

public fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this):
String = replaceBefore(delimiter, replacement, missingDelimiterValue)

/**
 * Removes the given [delimiter] string from both the start and the end of this string.
 * Otherwise returns this string unchanged.
 */

public fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this):
String = replaceAfter(delimiter, replacement, missingDelimiterValue)

/**
 * Removes the given [delimiter] string from both the start and the end of this string.
 * Otherwise returns this string unchanged.
 */

public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this):
String = replaceBeforeLast(delimiter, replacement, missingDelimiterValue)

/**
 * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression
 * with the given [replacement].
 * The [replacement] can consist of any combination of literal text and $-substitutions. To treat the replacement string
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.replace(regex: Regex, replacement: String): String
= regex.replace(this, replacement)

/**
 * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression
 * with the given [replacement].
 * The [replacement] can consist of any combination of literal text and $-substitutions. To treat the replacement string
 */
@kotlin.internal.InlineOnly
public inline fun String.replace(regex: Regex, replacement: String): String
= regex.replace(this, replacement)
sequence that matches the given regular expression\n * with the result of the given function \[\text{transform}\] that takes
[MatchResult] and returns a string to be used as a \n * replacement for that match.\n *\n *\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for
details:\n *\n *\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline transform: \n * (MatchResult) -> CharSequence): String =\n * regex.replace(this, transform)\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int,\n * ignoreCase: Boolean): Boolean =\n * other.matches(regex) || (otheroffset < 0) || (thisOffset < 0) \n * || (thisOffset > this.length - length) \n * || (otherOffset > other.length - length)) \n * return false\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.regionMatches(other: String, start: Int, length: Int, ignoreCase: Boolean): Boolean =\n * other.regionMatches(start, length, this, this[start], \n * this[start + length], ignoreCase) \n * return false\n */\n@kotlin.internal.InlineOnly\npublic fun CharSequence.matches(regex: Regex): Boolean = regex.matches(this)

/**
 * Returns `true` if this char sequence starts with the specified character.\n */
@kotlin.internal.InlineOnly\npublic inline fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n * this.length > 0 &&\n * this[0].equals(char, ignoreCase) \n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n * this.length > 0 &&\n * this[lastIndex].equals(char, ignoreCase) \n */\n@kotlin.internal.InlineOnly\npublic fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n *\n * @param other Has no common suffix, returns the empty string.\n */\n@kotlin.internal.InlineOnly\npublic fun CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n *\n * @param other Has no common suffix, returns the empty string.\n */\n@kotlin.internal.InlineOnly\npublic fun CharSequence.indexOfAny(chars: Array<Char>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\n * \n */\n@kotlin.internal.InlineOnly\npublic fun CharSequence.indexOfAny(chars: Collection<Char>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\n * \n */
optionally ignoring the case. \n * \n * @param ignoreCase 'true' to ignore character case when matching a character. By default 'false'. \n * @return An index of the first occurrence of matched character from [chars] or -1 if none of [chars] are found. \n *\n  *\n/**\n * Finds the index of the last occurrence of any of the specified [chars] in this char sequence, \n * starting from the specified [startIndex] and optionally ignoring the case. \n *\n  */
public fun CharSequence.lastIndexOf(chars: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n    if (!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single() \n        return nativeLastIndexOf(char, startIndex) \n    } else {\n        val indices = if (!startIndex.coerceAtMost(lastIndex) downTo 0) {\n            for (index in indices) {\n                val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) } \n                if (matchingString != null) \n                    return index to matchingString \n            } \n        } else {\n            for (index in startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(lastIndex) downTo 0\n                if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase) \n                    return index to other \n            } \n        } \n        return -1 \n    } \n\n    return -1 \n} \n\nprivate fun CharSequence.indexOf(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n    if (!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single() \n        return nativeIndexOf(char, startIndex) \n    } else {\n        val indices = if (!startIndex.coerceAtMost(lastIndex) downTo 0) {\n            for (index in indices) {\n                val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) } \n                if (matchingString != null) \n                    return index to matchingString \n            } \n        } else {\n            for (index in startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(lastIndex) \n                if (other.regionMatches(0, this, index, other.length, ignoreCase) \n                    return index to other \n            } \n        } \n        return -1 \n    } \n\n    return -1 \n} \n\nprivate fun CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n    if (!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single() \n        return nativeLastIndexOf(char, startIndex) \n    } else {\n        val indices = if (!startIndex.coerceAtMost(lastIndex) downTo 0) {\n            for (index in indices) {\n                val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) } \n                if (matchingString != null) \n                    return index to matchingString \n            } \n        } else {\n            for (index in startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(lastIndex) downTo 0\n                if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase) \n                    return index to other \n            } \n        } \n        return -1 \n    } \n\n    return -1 \n}
starting from the specified [startIndex] and optionally ignoring the case.

@fun

public fun

CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =

findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1

* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.

@fun

public fun

CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int =

lastIndexOfAny(strings, startIndex, ignoreCase, last = true)?.first ?: -1

* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.

@fun

public operator fun

CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =

false when (ignoreCase || this !is String)

indexOf(char, 0, length, ignoreCase) >= 0

* @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.

@fun

public operator fun

CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =

false when (other is String)

indexOf(other, ignoreCase) >= 0

* @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 15919
```kotlin
public fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> {
    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }
}

/**
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].
 * @param delimiters One or more strings to be used as delimiters.
 * @param ignoreCase 'true' to ignore character case when matching a delimiter.
 * @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds
 * from the beginning to the end of this string, and matches at each position the first element in
 * [delimiters] that is equal to a delimiter in this instance at that position.
 */
public fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    if (delimiters.size == 1) {
        val delimiter = delimiters[0]
        if (!delimiter.isEmpty()) {
            return split(delimiter, ignoreCase, limit)
        }
    }

    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

/**
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].
 * @param delimiters One or more characters to be used as delimiters.
 * @param ignoreCase 'true' to ignore character case when matching a delimiter.
 * @param limit The maximum number of substrings to return.
 */
public fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    if (delimiters.size == 1) {
        return split(delimiters[0].toString(), ignoreCase, limit)
    }

    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

/**
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].
 * This is specialized version of split which receives single non-empty delimiter and offers better performance
 * when matching a delimiter. By default 'false'.
 * @param delimiter String used as delimiter.
 * @param ignoreCase 'true' to ignore character case when matching a delimiter.
 * @param limit The maximum number of substrings to return.
 */
private fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
    require(limit >= 0, { "Limit must be non-negative, but was $limit." })

    var currentOffset = 0
    var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    if (nextIndex == -1 || limit == 1) {
        return listOf(this.toString())
    }

    val isLimited = limit > 0
    val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)
    do {
        result.add(substring(currentOffset, nextIndex))
        currentOffset = nextIndex + delimiter.length
        // Do not search for next occurrence if we're reaching limit
        if (isLimited && result.size == limit - 1) break
        nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    } while (nextIndex != -1)

    result.add(substring(currentOffset, length))
    return result
}

/**
 * Splits this char sequence around matches of the given regular expression.
 * @param regex The regular expression to split on.
 * @param limit The maximum number of substrings to return.
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> = regex.split(this, limit)

/**
 * Splits this char sequence to a list of lines delimited by any of the following character sequences:
 * CRLF, LF or CR.
 * The lines returned do not include terminating line separators.
 * @param ignoreCase The case sensitivity when splitting lines.
 */
public fun CharSequence.lineSequence(): Sequence<String> = splitToSequence("\r\n", "\n", "\r")

/**
 * Splits this char sequence to a list of lines delimited by any of the following character sequences:
 * CRLF, LF or CR.
 * The lines returned do not include terminating line separators.
 */
public fun CharSequence.lines(): List<String> = lineSequence().toList()
```

---

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 15921
---

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Kotlin text charset (UTF-8)
String(chars: CharArray): String {
    var result = ""
    for (char in chars) {
        result += char
    }
    return result
}

/**
 * Converts the characters from a portion of the specified array to a string.
 *
 * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero
 * or `offset + length` is out of [chars] array bounds.
 */
@SinceKotlin("1.2")
public actual fun String(chars: CharArray, offset: Int, length: Int):
    String {
        if (offset < 0 || length < 0 || chars.size - offset < length) throw
        IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")
    var result = ""
    for (index in offset until offset + length) {
        result += chars[index]
    }
    return result
}

/**
 * Concatenates characters in this [CharArray] into a String.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun CharArray.concatToString(): String {
    var result = ""
    for (char in this) {
        result += char
    }
    return result
}

/**
 * Concatenates characters in this [CharArray] or its subrange into a String.
 *
 * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.
 * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
@ExperimentalStdlibApi
public actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
    var result = ""
    for (index in startIndex until endIndex) {
        result += this[index]
    }
    return result
}

/**
 * Returns a [CharArray] containing characters of this string.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun String.toCharArray(): CharArray {
    return CharArray(length) { get(it) }
}

/**
 * Returns a [CharArray] containing characters of this string or its substring.
 *
 * @param startIndex the beginning (inclusive) of the substring, 0 by default.
 * @param endIndex the end (exclusive) of the substring, length of this string by default.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
@ExperimentalStdlibApi
public actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    return CharArray(endIndex - startIndex) {
        get(startIndex + it) }
}

/**
 * Decodes a string from the bytes in UTF-8 encoding in this array.
 * Malformed byte sequences are replaced by the replacement char \UFFFD.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun ByteArray.decodeToString(): String {
    return decodeUtf8(this, 0, size, false)
}

/**
 * Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.
 *
 * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to decode, size of this array by default.
 * @param throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char \UFFFD.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun ByteArray.decodeToString(startIndex: Int = 0, endIndex: Int = this.size, throwOnInvalidSequence: Boolean = false): String {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
    return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)
}

/**
 * Encodes this string to an array of bytes in UTF-8 encoding.
 * Any malformed char sequence is replaced by the replacement byte sequence.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun String.encodeToByteArray(): ByteArray {
    return encodeUtf8(this, 0, length, false)
}

/**
 * Encodes this string or its substring to an array of bytes in UTF-8 encoding.
 *
 * @param startIndex the beginning (inclusive) of the substring to encode, 0 by default.
 * @param endIndex the end (exclusive) of the substring to encode, size of this array by default.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun String.encodeToByteArray(startIndex: Int = 0, endIndex: Int = this.size, throwOnInvalidSequence: Boolean = false): ByteArray {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)
}
@param endIndex the end (exclusive) of the substring to encode, length of this string by default.
@throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.
@throws IllegalArgumentException if [startIndex] is greater than [endIndex].
@throws CharacterCodingException if this string contains malformed character sequence and [throwOnInvalidSequence] is true.

*/
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
@ExperimentalStdlibApi
public actual fun String.encodeToByteArray(
    startIndex: Int = 0,
    endIndex: Int = this.length,
    throwOnInvalidSequence: Boolean = false
): ByteArray {
    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)
}

/**
 * Returns a copy of this string converted to upper case using the rules of the default locale.
 */
@kotlin.internal.InlineOnly
public actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()

/**
 * Returns a copy of this string converted to lower case using the rules of the default locale.
 */
@kotlin.internal.InlineOnly
public actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()

@kotlin.internal.InlineOnly
internal actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str, fromIndex)

@kotlin.internal.InlineOnly
internal actual inline fun String.nativeLastIndexOf(str: String, fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)

@kotlin.internal.InlineOnly
internal inline fun String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s, position)

@kotlin.internal.InlineOnly
internal inline fun String.nativeEndsWith(s: String): Boolean = asDynamic().endsWith(s)

@kotlin.internal.InlineOnly
public actual inline fun String.substring(startIndex: Int): String = asDynamic().substring(startIndex)

@kotlin.internal.InlineOnly
public actual inline fun String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex, endIndex)

@kotlin.internal.InlineOnly
public inline fun String.concat(str: String): String = asDynamic().concat(str)

@kotlin.internal.InlineOnly
public inline fun String.match(regex: String): Array<String>? = asDynamic().match(regex)

@SinceKotlin("1.2")
public actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {
    if (ignoreCase) {
        val n1 = this.length
        val n2 = other.length
        val min = minOf(n1, n2)
        if (min == 0) return n1 - n2
        var start = 0
        while (true) {
            val end = minOf(start + 16, min)
            var s1 = this.substring(start, end)
            var s2 = other.substring(start, end)
            if (s1 != s2) {
                s1 = s1.toUpperCase()
                s2 = s2.toUpperCase()
                if (s1 != s2) {
                    s1 = s1.toLowerCase()
                    s2 = s2.toLowerCase()
                    if (s1 != s2) {
                        return s1.compareTo(s2)
                    }
                }
            }
            if (end == min) break
            start = end
        }
        return n1 - n2
    } else {
        return compareTo(other)
    }
}

private val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }

@SinceKotlin("1.2")
public actual val String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>
    get() = STRING_CASE_INSENSITIVE_ORDER

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UByteArray
    @Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
    internal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {

        /** Creates a new array of the specified [size], with all elements initialized to zero. */
        @PublishedApi
        internal constructor(size: Int) : this(ByteArray(size))

        /**
         * Returns the array element at the given [index]. This method can be called using the index operator.
         */
        @PublishedApi
        internal operator fun get(index: Int): UByte
    }

package kotlin

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public interface UByte
InRangeException] except in Kotlin/JS
          * where the behavior is unspecified.
          */
          public operator fun get(index: Int): UByte = storage[index].toUByte()
          /**
           * Sets the element at the given [index] to [value]. This method can be called using the index
           * operator. *
           */
          public operator fun set(index: Int, value: UByte) {
            storage[index] = value.toByte()
          }

          /**
           * Returns the number of elements in the array. *
           */
          public override val size: Int get() = storage.size

          /** Creates an iterator over the elements of the array. *
           */
          public override operator fun iterator(): UByteIterator =
            Iterator(storage)

          private class Iterator(private val array: ByteArray) : UByteIterator() {
            private var index = 0
            override fun hasNext() = index < array.size
            override fun nextUByte() = if (index < array.size)
              array[index++].toUByte() else throw NoSuchElementException(index.toString())
          }

          override fun contains(element: UByte): Boolean {
            // TODO: Eliminate this check after KT-30016 gets fixed.
            Currently JS BE does not generate special bridge method for this method.
            if ((element as Any?) is UByte) return false
            return storage.contains(element.toByte())
          }

          override fun containsAll(elements: Collection<UByte>): Boolean {
            return all { it is UByte && storage.contains(it.toByte()) }
          }

          override fun isEmpty(): Boolean = this.storage.size == 0
        }

        /**
         * Creates a new array of the specified [size], where each element is calculated by calling the specified
         * [init] function. *
         */
        @SinceKotlin("1.3")
        @ExperimentalUnsignedTypes
        @kotlin.internal.InlineOnly
        public inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {
          return UByteArray(ByteArray(size) { index -> init(index).toByte() })
        }

        @SinceKotlin("1.3")
        @ExperimentalUnsignedTypes
        @kotlin.internal.InlineOnly
        public inline fun ubyteArrayOf(vararg elements: UByte): UByteArray = elements

/*
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 */

// Auto-generated file. DO NOT EDIT!

package kotlin

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UIntArray @Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS") @PublishedApi internal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {

    /** Creates a new array of the specified [size], with all elements initialized to zero. *
     */
    public constructor(size: Int) : this(IntArray(size))

    /**
     * Returns the array element at the given [index]. This method can be called using the index
     * operator. *
     */
    public operator fun get(index: Int): UInt = storage[index].toUInt()

    /**
     * Sets the element at the given [index] to [value]. This method can be called using the index
     * operator. *
     */
    public operator fun set(index: Int, value: UInt) {
        storage[index] = value.toInt()
    }

    /** Returns
     * the number of elements in the array. *
     */
    public override val size: Int get() = storage.size

    /** Creates an iterator over the elements of the array. *
     */
    public override operator fun iterator(): UIntIterator =
        Iterator(storage)

    private class Iterator(private val array: IntArray) : UIntIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextUInt() = if (index < array.size)
          array[index++].toInt() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: UInt): Boolean {
        // TODO: Eliminate this check after KT-30016 gets fixed.
        Currently JS BE does not generate special bridge method for this method.
        if ((element as Any?) is UInt) return false
        return storage.contains(element.toInt())
    }

    override fun containsAll(elements: Collection<UInt>): Boolean {
        return all { it is UInt && storage.contains(it.toInt()) }
    }

    override fun isEmpty(): Boolean = this.storage.size == 0
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * [init] function. *
 */
public inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {
    return UIntArray(IntArray(size) { index -> init(index).toInt() })
}
should return the value for an array element given its index.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {
    return UIntArray(IntArray(size) { index ->
        init(index).toInt()
    })
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun uintArrayOf(vararg elements: UInt): UIntArray = elements
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline class ULongArray @PublishedApi internal constructor(storage: LongArray) : Collection<ULong> {
    /**
     * Returns the number of elements in the array.
     */
    public override val size: Int get() = storage.size

    /** Creates an iterator over the elements of the array. */
    public override operator fun iterator(): ULongIterator = Iterator(storage)

    private class Iterator(private val array: LongArray) : ULongIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextULong() = if (index < array.size)
            array[index++].toULong() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: ULong): Boolean {
        // TODO: Eliminate this check after KT-30016 gets fixed.
        // Currently JS BE does not generate special bridge method for this method.
        if ((element as Any?) !is ULong)
            return false
        return storage.contains(element.toLong())
    }

    override fun containsAll(elements: Collection<ULong>): Boolean {
        return (elements as Collection<*>).all { it is ULong &&
            storage.contains(it.toLong()) }
    }

    override fun isEmpty(): Boolean = this.storage.size == 0
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray(size: Int, init: (Int) -> ULong): ULongArray {
    return ULongArray(LongArray(size) { index ->
        init(index).toLong()
    })
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ulongArrayOf(vararg elements: ULong): ULongArray = elements
```

```kotlin
import kotlin.experimental.*

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline class ULong @PublishedApi internal constructor(data: Long) : Comparable<ULong> {

    companion object {
        /**
         * A constant holding the minimum value an instance of ULong can have.
         */
        public const val MIN_VALUE: ULong = ULong(0)

        /**
         * A constant holding the maximum value an instance of ULong can have.
         */
        public const val MAX_VALUE: ULong = ULong(-1)

        /**
         * The number of bytes used to represent an instance of ULong in a binary form.
         */
        public const val SIZE_BYTES: Int = 8
    }

    /**
     * Returns the array element at the given [index]. This method can be called
     * using the index operator. *\n     * *\n     * If the [index] is out of bounds of this array, throws an
     * [IndexOutOfBoundsException] except in Kotlin/JS.
     */
    public operator fun get(index: Int): ULong = storage[index].toULong()

    /**
     * Sets the element at the given [index] to the given [value].
     */
    public operator fun set(index: Int, value: ULong) {
        storage[index] = value.toLong()
    }

    override fun equals(other: Any?): Boolean {
        if (this === other) return true
        if (other !is ULong) return false
        return value == other.value
    }

    override fun hashCode(): Int = value.hashCode()

    override fun compareTo(other: ULong): Int {
        return value.compareTo(other.value)
    }

    override fun toString(): String = value.toString()
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline class ULongArray @PublishedApi internal constructor(storage: LongArray) : Collection<ULong> {
    /**
     * Returns the array element at the given [index].
     */
    public operator fun get(index: Int): ULong = storage[index].toULong()

    /**
     * Sets the element at the given [index] to the given [value].
     */
    public operator fun set(index: Int, value: ULong) {
        storage[index] = value.toLong()
    }

    override fun equals(other: Any?): Boolean {
        if (this === other) return true
        if (other !is ULongArray) return false
        if (this.storage.size != other.storage.size) return false
        return with(this) {
            storage.zip(other.storage) { a, b -> a == b }
        }
    }

    override fun hashCode(): Int = storage.hashCode()

    override fun toString(): String = storage.toString()
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline class ULongArray @PublishedApi internal constructor() : Collection<ULong> {
    /**
     * Returns the array element at the given [index].
     */
    public operator fun get(index: Int): ULong = storage[index].toULong()

    /**
     * Sets the element at the given [index] to the given [value].
     */
    public operator fun set(index: Int, value: ULong) {
        storage[index] = value.toLong()
    }

    override fun equals(other: Any?): Boolean {
        if (this === other) return true
        if (other !is ULongArray) return false
        if (this.storage.size != other.storage.size) return false
        return with(this) {
            storage.zip(other.storage) { a, b -> a == b }
        }
    }

    override fun hashCode(): Int = storage.hashCode()

    override fun toString(): String = storage.toString()
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline class ULongArray @PublishedApi internal constructor() : Collection<ULong> {
    /**
     * Returns the array element at the given [index].
     */
    public operator fun get(index: Int): ULong = storage[index].toULong()

    /**
     * Sets the element at the given [index] to the given [value].
     */
    public operator fun set(index: Int, value: ULong) {
        storage[index] = value.toLong()
    }

    override fun equals(other: Any?): Boolean {
        if (this === other) return true
        if (other !is ULongArray) return false
        if (this.storage.size != other.storage.size) return false
        return with(this) {
            storage.zip(other.storage) { a, b -> a == b }
        }
    }

    override fun hashCode(): Int = storage.hashCode()

    override fun toString(): String = storage.toString()
}
```
```kotlin
form.
*\npublic const val SIZE_BITS: Int = 64\n*/

public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())\n/**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */
public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toULong())\n/**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */
public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())\n/**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */
@Suppress("OVERRIDE_BY_INLINE")
public override inline operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\n/**\n * Adds the other value to this value.\n */
public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n/**\n * Adds the other value to this value.\n */
public inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\n/**\n * Adds the other value to this value.\n */
public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n/**\n * Adds the other value to this value.\n */
public inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))\n/**\n * Subtracts the other value from this value.\n */
public inline operator fun minus(other: UByte): ULong = this.minus(other.toULong())\n/**\n * Subtracts the other value from this value.\n */
public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n/**\n * Subtracts the other value from this value.\n */
public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())\n/**\n * Subtracts the other value from this value.\n */
public inline operator fun minus(other: ULong): ULong = ulongDivide(this, other)\n/**\n * Calculates the remainder of dividing this value by the other value.\n */
public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n/**\n * Calculates the remainder of dividing this value by the other value.\n */
public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\n/**\n * Calculates the remainder of dividing this value by the other value.\n */
public inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())\n/**\n * Calculates the remainder of dividing this value by the other value.\n */
public inline operator fun rem(other: ULong): ULong = ulongRemainder(this, other)\n/**\n * Increments this value.\n */
public inline operator fun inc(): ULong = ULong(data.inc())\n/**\n * Decrements this value.\n */
public inline operator fun dec(): ULong = ULong(data.dec())\n```

public inline operator fun dec(): ULong = ULong(data.dec())

/** Creates a range from this value to the specified [other] value. */
@kotlin.internal.InlineOnly
public inline operator fun rangeTo(other: ULong): ULongRange = ULongRange(this, other)

/** Shifts this value left by the [bitCount] number of bits. */
@kotlin.internal.InlineOnly
public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)

/** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */
@kotlin.internal.InlineOnly
public inline infix fun shr(bitCount: Int): ULong = ULong(data ushr bitCount)

/** Performs a bitwise AND operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun and(other: ULong): ULong = ULong(data and other.data)

/** Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun or(other: ULong): ULong = ULong(data or other.data)

/** Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public inline infix fun inv(): ULong = ULong(data.inv())

/** Converts this [ULong] value to [Byte]. */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()

/** Converts this [ULong] value to [UByte]. */
@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte()

/** Converts this [ULong] value to [UInt]. */
@kotlin.internal.InlineOnly
public inline fun toUInt(): UInt = data.toUInt()

/** Returns this value. */
@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = data

/** Converts this [ULong] value to [Int]. */
@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt()

/** Converts this [ULong] value to [Short]. */
@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data.toShort()

/** Converts this [ULong] value to [UShort]. */
@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = data.toUShort()

/** Converts this [ULong] value to [Byte]. */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()

/** Converts this [ULong] value to [UByte]. */
@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte()

/** Converts this [ULong] value to [Short]. */
@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data.toShort()

/** Converts this [ULong] value to [UShort]. */
@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = data.toUShort()

/** Converts this [ULong] value to [Byte]. */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()

/** Converts this [ULong] value to [UByte]. */
@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte()
Converts this [Byte] value to [ULong].

* If this value is positive, the resulting `ULong` value represents the same numerical value as this `Byte`.

* The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value, whereas the most significant 56 bits are filled with the sign bit of this value.

* If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.

* The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value, whereas the most significant 48 bits are filled with the sign bit of this value.

* Converts this [Int] value to [ULong].

* If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`.

* The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value, whereas the most significant 32 bits are filled with the sign bit of this value.

* Converts this [Long] value to [ULong].

* If this value is positive, the resulting `ULong` value represents the same binary representation as this `Long`.

* Converts this [Float] value to [ULong].

* The fractional part, if any, is rounded down towards zero.

* Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.

* Converts this [Double] value to [ULong].

* The fractional part, if any, is rounded down towards zero.

* Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.

* Creates a new array of the specified [size], with all elements initialized to zero.

* Returns the array element at the given [index].

* Sets the element at the given [index] to the given value.

* Returns the number of elements in the array.

* Creates an iterator over the elements of the array.

* Returns true

* return storage.contains(element.toShort())

* override fun containsAll(elements: Collection<@PublishedApi Short>): Boolean {

   // TODO: Eliminate this check after KT-30016 gets fixed.

   // Currently JS BE does not generate special bridge method for this method.

   if ((element as Any?) !is UShort) return false

   return storage.contains(element.toShort())

}
Collection<UShort>): Boolean {
        return (elements as Collection<*>).all { it is UShort &&
            storage.contains(it.toShort()) }
    }

    override fun isEmpty(): Boolean = this.storage.size == 0
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * function.
 * The function [init] is called for each array element sequentially starting from the first one.
 * It should return the value for an array element given its index.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {
    return UShortArray(ShortArray(size) { index ->
        init(index).toShort()
    })
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * function.
 * The function [init] is called for each array element sequentially starting from the first one.
 * It should return the value for an array element given its index.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ushortArrayOf(vararg elements: UShort): UShortArray = elements
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component3(): UInt {\n    return get(2)\n}\n\n* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component3(): ULong {\n    return get(2)\n}\n\n* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component3(): UByte {\n    return get(2)\n}\n\n* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component3(): UShort {\n    return get(2)\n}\n\n* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component4(): UInt {\n    return get(3)\n}\n\n* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component4(): ULong {\n    return get(3)\n}\n\n* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component4(): UByte {\n    return get(3)\n}\n\n* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component4(): UShort {\n    return get(3)\n}\n\n* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component5(): UInt {\n    return get(4)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component5(): ULong {\n    return get(4)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component5(): UByte {\n    return get(4)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component5(): UShort {\n    return get(4)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.componentAt(\n    index: Int\n) {\n    return get(index)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.componentAt(\n    index: Int\n) {\n    return get(index)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.componentAt(\n    index: Int\n) {\n    return get(index)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.componentAt(\n    index: Int\n) {\n    return get(index)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
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* where the behavior is unspecified.

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ULongArray.componentAt(\n    index: Int\n) {\n    return get(index)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
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*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
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* where the behavior is unspecified.

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* where the behavior is unspecified.

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UByteArray.componentAt(\n    index: Int\n) {\n    return get(index)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.componentAt(\n    index: Int\n) {\n    return get(index)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
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* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.componentAt(\n    index: Int\n) {\n    return get(index)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.componentAt(\n    index: Int\n) {\n    return get(index)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.componentAt(\n    index: Int\n) {\n    return get(index)\n}\n\n* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.
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*\@\SinceKotlin("1.3")\@\ExperimentalUnsignedTypes\@\public expect fun UIntArray.elementAt(index: Int): UInt
*\n\n\n*\@\SinceKotlin("1.3")\@\ExperimentalUnsignedTypes\@\public expect fun ULongArray.elementAt(index: Int): ULong
*\n\n\n*\@\SinceKotlin("1.3")\@\ExperimentalUnsignedTypes\@\public expect fun UByteArray.elementAt(index: Int): UByte
*\n\n\n*\@\SinceKotlin("1.3")\@\ExperimentalUnsignedTypes\@\public expect fun UShortArray.elementAt(index: Int): UShort
*\n\n\n*\@\SinceKotlin("1.3")\@\ExperimentalUnsignedTypes\@\public expect fun UIntArray.elementAt(index: Int): UInt
*\n\n\n*\@\SinceKotlin("1.3")\@\ExperimentalUnsignedTypes\@\public inline fun UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

*\@\SinceKotlin("1.3")\@\ExperimentalUnsignedTypes\@\public inline fun ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

*\@\SinceKotlin("1.3")\@\ExperimentalUnsignedTypes\@\public inline fun UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

*\@\SinceKotlin("1.3")\@\ExperimentalUnsignedTypes\@\public inline fun UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

*\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UIntArray.elementAtOrNull(index: Int): UInt?
*\n\n\n*\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun ULongArray.elementAtOrNull(index: Int): ULong?
*\n\n\n*\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UByteArray.elementAtOrNull(index: Int): UByte?
*\n\n\n*\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UShortArray.elementAtOrNull(index: Int): UShort?
*\n\n\n
*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UIntArray.elementAt(index: Int): UInt
*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun ULongArray.elementAt(index: Int): ULong
*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UByteArray.elementAt(index: Int): UByte
*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UShortArray.elementAt(index: Int): UShort
*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UIntArray.elementAt(index: Int): UInt
*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public inline fun UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public inline fun ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public inline fun UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

\@\SinceKotlin("1.3")\@\ExperimentalUnsignedTypes\@\public inline fun UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public inline fun UIntArray.elementAtOrNull(index: Int): UInt?
*\n\n\n\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public inline fun ULongArray.elementAtOrNull(index: Int): ULong?
*\n\n\n\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public inline fun UByteArray.elementAtOrNull(index: Int): UByte?
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*\n\n\n
*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public inline fun UIntArray.elementAt(index: Int): UInt
*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public inline fun ULongArray.elementAt(index: Int): ULong
*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public inline fun UByteArray.elementAt(index: Int): UByte
*\n\n\n*/

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*\n\n\n*/

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*\n\n\n*/

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*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UByteArray.elementAt(index: Int): UByte
*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UShortArray.elementAt(index: Int): UShort
*\n\n\n*/

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*\n\n\n*/

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*\n\n\n*/

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*\n\n\n*/

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*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun ULongArray.elementAt(index: Int): ULong
*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UByteArray.elementAt(index: Int): UByte
*\n\n\n*/

\@\SinceKotlin("1.3")\@\ ExperimentalUnsignedTypes\@\public fun UShortArray.elementAt(index: Int): UShort
*\n\n\n*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.find(predicate: (UInt) -> Boolean): UInt? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {
    return firstOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {
    return lastOrNull(predicate)
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.first(): UInt {
    return storage.first().toUInt()
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.first(): ULong {
    return storage.first().toULong()
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.first(): UByte {
    return storage.first().toUByte()
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.first(): UShort {
    return storage.first().toUShort()
}

/**
 * Returns first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {
    for (element in this) if (predicate(element)) return
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.first(predicate: (ULong) -> Boolean): ULong {
    for (element in this) if (predicate(element)) return
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.first(predicate: (UByte) -> Boolean): UByte {
    for (element in this) if (predicate(element)) return
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.first(predicate: (UShort) -> Boolean): UShort {
    for (element in this) if (predicate(element)) return
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
null

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.getOrNull(index: Int): ULong? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.getOrNull(index: Int): UByte? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.getOrNull(index: Int): UShort? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns first index of 
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun UIntArray.indexOf(element: UInt): Int {
    return storage.indexOf(element.toInt())
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun ULongArray.indexOf(element: ULong): Int {
    return storage.indexOf(element.toLong())
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun UByteArray.indexOf(element: UByte): Int {
    return storage.indexOf(element.toByte())
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun UShortArray.indexOf(element: UShort): Int {
    return storage.indexOf(element.toShort())
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUInt()) }
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toULong()) }
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUByte()) }
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUShort()) }
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toUInt()) }
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toULong()) }
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toUByte()) }
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")@kotlin.internal.InlineOnly
public inline fun UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfLast { predicate(it.toUShort()) }
}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfLast {
        predicate(it.toUShort())
    }
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.last(): UInt {
    return storage.last().toUInt()
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.last(): ULong {
    return storage.last().toULong()
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.last(): UByte {
    return storage.last().toUByte()
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.last(): UShort {
    return storage.last().toUShort()
}

/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.last(predicate: (UInt) -> Boolean): UInt {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.last(predicate: (ULong) -> Boolean): ULong {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.last(predicate: (UByte) -> Boolean): UByte {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
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 * @throws [NoSuchElementException] if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.last(predicate: (UShort) -> Boolean): UShort {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.lastIndexOf(element: UInt): Int {
    return storage.lastIndexOf(element.toInt())
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.lastIndexOf(element: ULong): Int {
    return storage.lastIndexOf(element.toLong())
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.lastIndexOf(element: UByte): Int {
    return storage.lastIndexOf(element.toByte())
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.lastIndexOf(element: UShort): Int {
    return storage.lastIndexOf(element.toShort())
}

/**
 * Returns last index of [element], or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.lastOrNull(): UInt? { return
if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.lastOrNull(): ULong? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element matching the given [predicate], or
 * `null` if no such element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or
 * `null` if no such element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or
 * `null` if no such element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or
 * `null` if no such element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.random(): UInt {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.random(): ULong {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.random(): UByte {
    return random(Random)
}

/**
 * Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.random(): UShort {
    return random(Random)
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.random(random: Random): UInt
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.random(random: Random): ULong
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.random(random: Random): UByte
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.random(random: Random): UShort
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}
public fun UShortArray.random(random: Random): UShort {
    if (isEmpty())
        return get(random.nextInt(size))

    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.randomOrNull(): UInt? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.randomOrNull(random: Random): ULong? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.randomOrNull(random: Random): UByte? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.randomOrNull(random: Random): UShort? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.single(): UInt {
    return storage.single().toUInt()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.single(): ULong {
    return storage.single().toULong()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.single(): UByte {
    return storage.single().toUByte()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.single(): UShort {
    return storage.single().toUShort()
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.single(predicate: (UInt) -> Boolean): UInt {
    var single: UInt? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
}
@Suppress("UNCHECKED_CAST")
return single as UInt
}

/**
 * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {
    var single: ULong? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    return single as ULong
}

/**
 * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.single(predicate: (UByte) -> Boolean): UByte {
    var single: UByte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    return single as UByte
}

/**
 * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.single(predicate: (UShort) -> Boolean): UShort {
    var single: UShort? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    return single as UShort
}

/**
 * Returns single element, or `null` if
the array is empty or has more than one element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.singleOrNull(): UInt? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if
the array is empty or has more than one element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.singleOrNull(): ULong? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if
the array is empty or has more than one element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.singleOrNull(): UByte? {
    return if (size == 1) this[0] else null
}

/**
 * Returns single element, or `null` if
the array is empty or has more than one element.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.singleOrNull(): UShort? {
    return if (size == 1) this[0] else null
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {
    var single: UInt? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {
    var single: ULong? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {
    var single: UByte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
    var single: UShort? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    return single
}
fun.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
    var single = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.drop(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.drop(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.drop(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.drop(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.dropLast
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.dropLast(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.dropLast
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.dropLast(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.dropLast
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.dropLast(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.dropLast
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.dropLast(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last elements that satisfy the given predicate.
 * 
 * @sample samples.collections.Collections.Transformations.dropLastWhile
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given predicate.
 * 
 * @sample samples.collections.Collections.Transformations.dropLastWhile
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given predicate.
 * 
 * @sample samples.collections.Collections.Transformations.dropLastWhile
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given predicate.
 * 
 * @sample samples.collections.Collections.Transformations.dropLastWhile
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
Returns a list containing all elements except last elements that satisfy the given \[predicate\].

```kotlin
*@
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    return emptyList()
}

*@
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    return emptyList()
}

*@
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    return emptyList()
}

*@
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {
    var yielding = false
    val list = ArrayList<UInt>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

*@
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {
    var yielding = false
    val list = ArrayList<ULong>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

*@
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {
    var yielding = false
    val list = ArrayList<UByte>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

*@
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {
    var yielding = false
    val list = ArrayList<UShort>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

*@
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {
    return filterTo(ArrayList<UInt>(), predicate)
}

*@
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {
    return filterTo(ArrayList<ULong>(), predicate)
}

*@
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
@public inline fun UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {
    return filterTo(ArrayList<UByte>(), predicate)
}
```

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matching the given [predicate].

*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n    return filterNotTo(ArrayList<UInt>(), predicate)\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n    return filterNotTo(ArrayList<ULong>(), predicate)\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n    return filterNotTo(ArrayList<UByte>(), predicate)\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n    return filterNotTo(ArrayList<UShort>(), predicate)\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun UIntArray.filterNotTo(destination:MutableCollection<in UInt>, predicate: (UInt) -> Boolean): MutableList<UInt> {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun ULongArray.filterNotTo(destination:MutableCollection<in ULong>, predicate: (ULong) -> Boolean): MutableList<ULong> {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun UByteArray.filterNotTo(destination:MutableCollection<in UByte>, predicate: (UByte) -> Boolean): MutableList<UByte> {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun UShortArray.filterNotTo(destination:MutableCollection<in UShort>, predicate: (UShort) -> Boolean): MutableList<UShort> {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun UIntArray.filterTo(destination:MutableCollection<in UInt>, predicate: (UInt) -> Boolean): MutableList<UInt> {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun ULongArray.filterTo(destination:MutableCollection<in ULong>, predicate: (ULong) -> Boolean): MutableList<ULong> {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun UByteArray.filterTo(destination:MutableCollection<in UByte>, predicate: (UByte) -> Boolean): MutableList<UByte> {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun UShortArray.filterTo(destination:MutableCollection<in UShort>, predicate: (UShort) -> Boolean): MutableList<UShort> {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n
*\@SinceKotlin("1.3\")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\@public inline fun UIntArray.slice(indices: IntRange): List<UInt> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive +
```kotlin
/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.slice(indices: IntRange): UIntArray {
    return UIntArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.slice(indices: IntRange): ULongArray {
    return ULongArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.slice(indices: IntRange): UByteArray {
    return UByteArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.slice(indices: IntRange): UShortArray {
    return UShortArray(storage.sliceArray(indices))
}
```

---

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alnum@SinceKotlin("1.3")alnum@ExperimentalUnsignedTypespublic fun UByteArray.take(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    val list = ArrayList<UByte>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

alnum@SinceKotlin("1.3")alnum@ExperimentalUnsignedTypespublic fun UByteArray.takeLast(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<UByte>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

alnum@SinceKotlin("1.3")alnum@ExperimentalUnsignedTypespublic fun UShortArray.take(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UShort>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}

alnum@SinceKotlin("1.3")alnum@ExperimentalUnsignedTypespublic fun UShortArray.takeLast(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    var count = 0
    val list = ArrayList<UShort>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
ArrayList<UShort>(n) for (index in size - n until size) list.add(this[index]) return list

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return drop(index + 1) } } return toList() }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return drop(index + 1) } } return toList() }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return drop(index + 1) } } return toList() }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> { for (index in lastIndex downTo 0) { if (!predicate(this[index])) { return drop(index + 1) } } return toList() }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> { val list = ArrayList<UInt>() for (item in this) { if (!predicate(item)) break list.add(item) } return list }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> { val list = ArrayList<ULong>() for (item in this) { if (!predicate(item)) break list.add(item) } return list }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> { val list = ArrayList<UByte>() for (item in this) { if (!predicate(item)) break list.add(item) } return list }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> { val list = ArrayList<UShort>() for (item in this) { if (!predicate(item)) break list.add(item) } return list }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.reverse(): Unit { storage.reverse() }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.reverse(): Unit { storage.reverse() }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.reverse(): Unit { storage.reverse() }

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.reverse(): Unit { storage.reverse() }

Reverses elements in the array in-place.

LinkedList<UShort>(n) for (index in size - n until size) list.add(this[index]) return list

@Sample
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.reversed(): List<UInt> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
ULongArray.reversed(): List<ULong> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.reversed(): List<UByte> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UShortArray.reversed(): List<UShort> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UShortArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sorted(): List<UInt> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sorted(): List<ULong> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sorted(): List<UByte> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sorted(): List<UShort> {
    return copyOf().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedArray(): UIntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
ULongArray.sortedArray(): ULongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedArray(): UByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UShortArray.sortedArray(): UShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}
elements of this array sorted according to their natural sort order.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedArray(): UByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedArray(): UShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedArrayDescending(): UIntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortedArrayDescending(): ULongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedArrayDescending(): UByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedArrayDescending(): UShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedDescending(): List<UInt> {
    return copyOf().apply { sort() }.reversed()
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortedDescending(): List<ULong> {
    return copyOf().apply { sort() }.reversed()
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedDescending(): List<UByte> {
    return copyOf().apply { sort() }.reversed()
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedDescending(): List<UShort> {
    return copyOf().apply { sort() }.reversed()
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray {
    return storage
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray {
    return storage
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>
```

Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray {
    return storage
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray {
    return storage
}
```

Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>
```

Returns a [List] that wraps the original array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.asList(): List<UInt>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.asList(): List<ULong>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByteArray>

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.asList(): List<UShort>
```

Returns a [List] that wraps the original array.
```kotlin
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public inline fun ULongArray.asLongArray(): LongArray {
    return storage
}

/**
 * Returns an array of type [ShortArray], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public inline fun UShortArray.asShortArray(): ShortArray {
    return storage
}

/**
 * Returns an array of type [UByteArray], which is a view of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public inline fun ByteArray.asUByteArray(): UByteArray {
    return UByteArray(this)
}

/**
 * Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public inline fun IntArray.asUIntArray(): UIntArray {
    return UIntArray(this)
}

/**
 * Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public inline fun LongArray.asULongArray(): ULongArray {
    return ULongArray(this)
}

/**
 * Returns an array of type [UShortArray], which is a view of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public inline fun ShortArray.asUShortArray(): UShortArray {
    return UShortArray(this)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public infix fun UIntArray.contentEquals(other: UIntArray): Boolean {
    return storage.contentEquals(other.storage)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public infix fun ULongArray.contentEquals(other: ULongArray): Boolean {
    return storage.contentEquals(other.storage)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public infix fun UByteArray.contentEquals(other: UByteArray): Boolean {
    return storage.contentEquals(other.storage)
}

/**
 * Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public infix fun UShortArray.contentEquals(other: UShortArray): Boolean {
    return storage.contentEquals(other.storage)
}

/**
 * Returns a hash code based on the contents of this array as if it is a List.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public fun UIntArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is a List.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public fun ULongArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is a List.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public fun UByteArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is a List.
 */
/*@SinceKotlin("1.3")*/
@ExperimentalUnsignedTypes
public fun UShortArray.contentHashCode(): Int {
    return storage.contentHashCode()
}
```

---

Open Source Used in Cisco Nexus Dashboard Fabric Controller 12.0(1) 15948
ния @SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun UByteArray.contentToString(): String {

    return joinToString(", ", "]", "]")@n*/n*/n */n /* Returns a string representation of the contents of the specified array as if it is [List].
@n */n * @sample samples.collections.Arrays.ContentOperations.contentToString
@n */n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun UByte<caret>Array.contentToString(): String {

    return joinToString(", ", "]", "]")@n*/n*/n */n */n /* Returns a string representation of the contents of the specified array as if it is [List].
@n */n * @sample samples.collections.Arrays.ContentOperations.contentToString
@n */n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun UShortArray.contentToString(): String {

    return joinToString(", ", "]", "]")@n*/n*/n */n */n */n * Copies this array or its subrange into the [destination] array and returns that array.@n */n * @n /* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.@n */n * @param destination the array to copy to.@n */n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.@n */n * @param start<caret>Index the beginning (inclusive) of the subrange to copy, 0 by default.@n */n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.@n */n * @throws IndexOutOfBoundsException or [InRangeException] when [start<caret>Index] or [endIndex] is out of range of this array indices or when `start<caret>Index > endIndex`.@n */n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],@n */n * or when that index is out of the [destination] array indices range.@n */n * @return the [destination] array.

@n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@in@n */n */n */n */n */n */n */n @kotlin.experimental.InlineOnly @public inline fun UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UIntArray {

    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)

    return destination
@n*/n*/n */n */n /* Copies this array or its subrange into the [destination] array and returns that array.@n */n * @n /* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.@n */n * @param destination the array to copy to.@n */n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.@n */n * @param start<caret>Index the beginning (inclusive) of the subrange to copy, 0 by default.@n */n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.@n */n * @throws IndexOutOfBoundsException or [InRangeException] when [start<caret>Index] or [endIndex] is out of range of this array indices or when `start<caret>Index > endIndex`.@n */n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],@n */n * or when that index is out of the [destination] array indices range.@n */n * @return the [destination] array.

@n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@in@n */n */n */n */n */n */n */n @kotlin.experimental.InlineOnly @public inline fun ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ULongArray {

    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)

    return destination
@n*/n*/n */n */n /* Copies this array or its subrange into the [destination] array and returns that array.@n */n * @n /* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.@n */n * @param destination the array to copy to.@n */n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.@n */n * @param start<caret>Index the beginning (inclusive) of the subrange to copy, 0 by default.@n */n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.@n */n * @throws IndexOutOfBoundsException or [InRangeException] when [start<caret>Index] or [endIndex] is out of range of this array indices or when `start<caret>Index > endIndex`.@n */n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],@n */n * or when that index is out of the [destination] array indices range.@n */n * @return the [destination] array.

@n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@in@n */n */n */n */n */n */n */n @kotlin.experimental.InlineOnly @public inline fun UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UByteArray {

    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)

    return destination
@n*/n*/n */n */n /* Copies this array or its subrange into the [destination] array and returns that array.@n */n * @n /* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.@n */n * @param destination the array to copy to.@n */n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.@n */n * @param start<caret>Index the beginning (inclusive) of the subrange to copy, 0 by default.@n */n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {
    return UIntArray(storage.copyOfRange(fromIndex, toIndex))
}

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * @throws IllegalArgumentOutOfRangeException if [fromIndex] is less than or [toIndex] is greater than the size of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toInt(), fromIndex, toIndex)
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * @throws IllegalArgumentOutOfRangeException if [fromIndex] is less than or [toIndex] is greater than the size of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toLong(), fromIndex, toIndex)
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * @throws IllegalArgumentOutOfRangeException if [fromIndex] is less than or [toIndex] is greater than the size of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toByte(), fromIndex, toIndex)
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * @throws IllegalArgumentOutOfRangeException if [fromIndex] is less than or [toIndex] is greater than the size of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toShort(), fromIndex, toIndex)
}

/**
 * Returns the range of valid indices for the array.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * @throws IllegalArgumentOutOfRangeException if [fromIndex] is less than or [toIndex] is greater than the size of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the range of valid indices for the array.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * @throws IllegalArgumentOutOfRangeException if [fromIndex] is less than or [toIndex] is greater than the size of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the range of valid indices for the array.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * @throws IllegalArgumentOutOfRangeException if [fromIndex] is less than or [toIndex] is greater than the size of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the range of valid indices for the array.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 * @throws IllegalArgumentOutOfRangeException if [fromIndex] is less than or [toIndex] is greater than the size of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.indices: IntRange
    get() = storage.indices

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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UShortArray.indices: IntRange
    get() = storage.indices

/**
 * Returns the last valid index for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UIntArray.lastIndex: Int
    get() = storage.lastIndex

/**
 * Returns the last valid index for the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val ULongArray.lastIndex: Int
    get() = storage.lastIndex

/**
 * Returns an array containing all elements of the original array and then the given 
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.plus(element: UInt): UIntArray {
    return UIntArray(storage +
        element.toInt())
}

/**
 * Returns an array containing all elements of the original array and then the given 
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.plus(element: ULong): ULongArray {
    return ULongArray(storage +
        element.toLong())
}

/**
 * Returns an array containing all elements of the original array and then the given 
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.plus(element: UByte): UByteArray {
    return UByteArray(storage +
        element.toByte())
}

/**
 * Returns an array containing all elements of the original array and then the given 
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    return UShortArray(storage +
        element.toShort())
}

/**
 * Returns an array containing all elements of the original array and then all elements 
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.plus(elements: Collection<UInt>): UIntArray {
    var index = size
    val result =
        storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toInt()
    return
        UIntArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements 
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.plus(elements: Collection<ULong>): ULongArray {
    var index = size
    val result =
        storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toLong()
    return
        ULongArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements 
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {
    var index = size
    val result =
        storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toByte()
    return
        UByteArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements 
 * of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.plus(elements: UIntArray): UIntArray {
    return UIntArray(storage +
        elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements 
 * of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.plus(elements: ULongArray): ULongArray {
    return ULongArray(storage +
        elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements 
 * of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.plus(elements: UByteArray): UByteArray {
    return UByteArray(storage +
        elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements 
 * of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {
    return UShortArray(storage +
        elements.storage)
}
Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public inline fun UShortArray.plus(elements: UShortArray): UShortArray {
    return UShortArray(storage + elements.storage)
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {
    return UShortArray(storage + elements.storage)
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UIntArray.sort(): Unit {
    if (size > 1) sortArray(this) // Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun ULongArray.sort(): Unit {
    if (size > 1) sortArray(this) // Returns an array of type [IntArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UByteArray.sort(): Unit {
    if (size > 1) sortArray(this) // Returns a *typed* object array containing all of the elements of this primitive array.
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UIntArray.toTypedArray(): Array<UInt> {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun ULongArray.toTypedArray(): Array<ULong> {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UByteArray.toTypedArray(): Array<UByte> {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UShortArray.toTypedArray(): Array<UShort> {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UByteArray.toUByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UIntArray.toIntArray(): IntArray {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun ULongArray.toLongArray(): LongArray {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UByteArray.toShortArray(): ShortArray {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UByteArray.toByteArray(): ByteArray {
    return storage.copyOf()
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UintArray.toUIntArray(): UIntArray {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun ULongArray.toLongArray(): LongArray {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UByteArray.toUByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun ByteArray.toUByteArray(): UByteArray {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UByte.toUByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun Uint.toUByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun ULong.toLongArray(): LongArray {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UShort.toShortArray(): ShortArray {
    return Array(size) { index -> this[index] }
}
```

```kotlin
/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UByte.toUByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}
```
copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun IntArray.toUIntArray(): UIntArray {
    return UIntArray(this.copyOf())
}
```

Returns an array of ULong containing all of the elements of this generic array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Array<out ULong>.toULongArray(): ULongArray {
    return ULongArray(size) { index -> this[index] }
}
```

Which is a copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun IntArray.toULongArray(): ULongArray {
    return ULongArray(this.copyOf())
}
```

Returns an array of ULong containing all of the elements of this generic array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Array<out UShort>.toUShortArray(): UShortArray {
    return UShortArray(size) { index -> this[index] }
}
```

Which is a copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun IntArray.flatMap(transform: (UInt) -> Iterable<in R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

Returns a single list of all elements yielded from results of [transform] function being invoked on each element of the original array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.flatMap(transform: (UByte) -> Iterable<in R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

Returns a single list of all elements yielded from results of [transform] function being invoked on each element of the original array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.flatMap(transform: (UShort) -> Iterable<in R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

Returns a single list of all elements yielded from results of [transform] function being invoked on each element of the original array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.flatMap(transform: (ULong) -> Iterable<in R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
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    return flatMapTo(ArrayList<R>(), transform)
}
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Returns a single list of all elements yielded from results of [transform] function being invoked on each element of the original array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.flatMap(transform: (UShort) -> Iterable<in R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

Returns a single list of all elements yielded from results of [transform] function being invoked on each element of the original array.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of \[transform\] function being invoked on each element of original array, to the given \[destination\].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given \[keySelector\] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {
    return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given \[keySelector\] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {
    return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given \[keySelector\] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {
    return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given \[keySelector\] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {
    return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)
}

/**
 * Groups values returned by the \[valueTransform\] function applied to each element of the original array\n * by the key returned by the given \[keySelector\] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the \[valueTransform\] function applied to each element of the original array\n * by the key returned by the given \[keySelector\] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the \[valueTransform\] function applied to each element of the original array\n * by the key returned by the given \[keySelector\] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the \[valueTransform\] function applied to each element of the original array\n * by the key returned by the given \[keySelector\] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the \[valueTransform\] function applied to each element of the original array\n * by the key returned by the given \[keySelector\] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V>
ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform) {
        return
    } * Groups values returned by the [valueTransform] function applied to each element of the original array
    * by the key returned by the given [keySelector] function applied to the element
    * and returns a map where each group key is associated with a list of corresponding values.
    * The returned map preserves the entry iteration order of the keys
    produced from the original array.
}

ULongArray.groupByTo(destination: MutableMap<K, List<V>>, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): 
    return groupByTo(destination, keySelector, valueTransform) {
        return
    } * Groups elements of the original array by the key returned by the given [keySelector] function
        applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
        The returned map preserves the entry iteration order of the keys
        produced from the original array.
}

UBByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform) {
        return
    } * Groups values returned by the [valueTransform] function applied to each element of the original array
        * by the key returned by the given [keySelector] function applied to the element
        * and returns a map where each group key is associated with a list of corresponding values.
        * The returned map preserves the entry iteration order of the keys
        produced from the original array.
}

UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform) {
        return
    } * Groups elements of the original array by the key returned by the given [keySelector] function
        applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
        The returned map preserves the entry iteration order of the keys
        produced from the original array.
}

UIntArray.groupByTo(destination: MutableMap<K, List<UInt>>, keySelector: (UInt) -> K): 
    return groupByTo(destination, keySelector) {
        return
    } * Groups elements of the original array by the key returned by the given [keySelector] function
        applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
        The returned map preserves the entry iteration order of the keys
        produced from the original array.
}

UByteArray.groupByTo(destination: MutableMap<K, List<UByte>>, keySelector: (UByte) -> K): 
    return groupByTo(destination, keySelector) {
        return
    } * Groups elements of the original array by the key returned by the given [keySelector] function
        applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
        The returned map preserves the entry iteration order of the keys
        produced from the original array.
list of corresponding values.

public inline fun <K, V, M : MutableMap<K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V, M : MutableMap<K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V, M : MutableMap<K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K, valueTransform: (UByte) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V, M : MutableMap<K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Returns a list containing the results of applying the given [transform] function to each element in the original array.
 * @param [transform] function that takes the index of an element and
 * @sample samples.collections.Collections.Transformations.map
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.map(transform: (UInt) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function to each element in the original array.
 * @param [transform] function that takes the index of an element and
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 */
@SinceKotlin("1.3")
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public inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function to each element in the original array.
 * @param [transform] function that takes the index of an element and
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/**
 * Returns a list containing the results of applying the given [transform] function to each element in the original array.
 * @param [transform] function that takes the index of an element and
 * @sample samples.collections.Collections.Transformations.map
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.map(transform: (UShort) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}
the element itself
* and returns the result of the transform applied to the element.

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun <R>
UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> { \n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun <R>
ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> { \n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun <R>
UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> { \n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun <R>
UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> { \n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun <R>
UIntArray.mapTo(destination: C, transform: (UInt) -> R): C { \n    for (item in this)
    destination.add(transform(item))
    return destination\n}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun <R>
ULongArray.mapTo(destination: C, transform: (index: Int, ULong) -> R): C { \n    for (item in this)
    destination.add(transform(index++, item))
    return destination\n}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun <R>
UByteArray.mapTo(destination: C, transform: (index: Int, UByte) -> R): C { \n    for (item in this)
    destination.add(transform(item))
    return destination\n}

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\@kotlin.internal.InlineOnly\public inline fun <R>
UShortArray.mapTo(destination: C, transform: (index: Int, UShort) -> R): C { \n    for (item in this)
    destination.add(transform(item))
    return destination\n}
element of the original array
* and appends the results to the given [destination].

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <R, C : MutableCollection<R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {
    for (item in this)
        destination.add(transform(item)) # Applies the given [transform] function to each element of the original array
    return destination
}

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <R, C : MutableCollection<R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {
    for (item in this)
        destination.add(transform(item)) # Applies the given [transform] function to each element of the original array
    return destination
}

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <R, C : MutableCollection<R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {
    for (item in this)
        destination.add(transform(item)) # Applies the given [transform] function to each element of the original array
    return destination
}

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UIntArray.withIndex():
    Iterable<IndexedValue<Int>> {
        return IndexingIterable { iterator() }
    }

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun ULongArray.withIndex():
    Iterable<IndexedValue<ULong>> {
        return IndexingIterable { iterator() }
    }

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UByteArray.withIndex():
    Iterable<IndexedValue<UByte>> {
        return IndexingIterable { iterator() }
    }

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UShortArray.withIndex():
    Iterable<IndexedValue<UShort>> {
        return IndexingIterable { iterator() }
    }

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {
    for (element in this)
        if (!predicate(element)) return false
    return true
}

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {
    for (element in this)
        if (!predicate(element)) return false
    return true
}

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {
    for (element in this)
        if (!predicate(element)) return false
    return true
}

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UShortArray.all(predicate: (UShort) -> Boolean): Boolean {
    for (element in this)
        if (!predicate(element)) return false
    return true
}

*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UIntArray.any(): Boolean {
    return storage.any()
}

*An@SinceKotlin("1.3")@ ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun ULongArray.any(): Boolean {
    return storage.any()
}

*An@SinceKotlin("1.3")@ ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UByteArray.any(): Boolean {
    return storage.any()
}

*An@SinceKotlin("1.3")@ ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun UShortArray.any(): Boolean {
    return storage.any()
}
UByteArray.any(): Boolean {\n    return storage.any()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.any(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.any(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.any(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.any(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.count(predicate: (UInt) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Returns the number of elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}
value starting with \([\text{initial}]\) value and applying \([\text{operation}]\) from left to right to current accumulator value and each element with its index in the original array.\n* @param \([\text{operation}]\) function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.\n
```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }
    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }
    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }
    return accumulator
}
```

```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }
    return accumulator
}
```
*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {
  var index = lastIndex
  var accumulator = initial
  while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
  }
  return accumulator
}

/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {
  var index = 0
  for (item in this)
    action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {
  var index = 0
  for (item in this)
action(index++, item) \n\n* Performs the given [action] on each element, providing sequential index with the element.
* @param [action] function that takes the index of an element and the element itself
* and performs the desired action on the element.
* \n
```kotlin
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.forEachIndexed(action: (Int, UByte) -> Unit): Unit {\n    var index = 0\n    for (item in this) \n        action(index++, item) \n} \n
/**
* Performs the given [action] on each element, providing sequential index with the element.
* @param [action] function that takes the index of an element and the element itself
* and performs the desired action on the element.
* \n
```kotlin
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.forEachIndexed(action: (Int, UShort) -> Unit): Unit {\n    var index = 0\n    for (item in this) \n        action(index++, item) \n} \n
/**
* Returns the largest element or `null` if there are no elements.
* \n
```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.max(): UInt? {\n    if (isEmpty()) return null\n    var max = this[0].\n    for (i in 1..lastIndex) {\n        val e = this[i] if (max < e) max = e\n    } \n    return max\n} \n
/**
* Returns the largest element or `null` if there are no elements.
* \n
```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max(): ULong? {\n    if (isEmpty()) return null\n    var max = this[0].\n    for (i in 1..lastIndex) {\n        val e = this[i] if (max < e) max = e\n    } \n    return max\n} \n
/**
* Returns the first element yielding the largest value of the given function or `null` if there are no elements.
* \n
```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n    if (isEmpty()) return null\n    var maxElem = this[0].\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i] if (maxValue < e) {\n            maxElem = e\n            maxValue = e\n        } \n    } \n    return maxElem\n} \n
/**
* Returns the first element yielding the largest value of the given function or `null` if there are no elements.
* \n
```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n    if (isEmpty()) return null\n    var maxElem = this[0].\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i] if (maxValue < e) {\n            maxElem = e\n            maxValue = e\n        } \n    } \n    return maxElem\n} \n
/**
* Returns the first element yielding the largest value of the given function or `null` if there are no elements.
* \n
```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {\n    if (isEmpty()) return null\n    var maxElem = this[0].\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i] if (maxValue < e) {\n            maxElem = e\n            maxValue = e\n        } \n    } \n    return maxElem\n} \n
/**
* Returns the first element yielding the largest value of the given function or `null` if there are no elements.
* \n
```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n    if (isEmpty()) return null\n    var maxElem = this[0].\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i] if (maxValue < e) {\n            maxElem = e\n            maxValue = e\n        } \n    } \n    return maxElem\n} \n```
fun maxWith(comparator: Comparator<in T>): T? {
    return maxWith { e -> comparator.compare(e, last()) }  
}

fun minWith(comparator: Comparator<in T>): T? {
    return minWith { e -> comparator.compare(last(), e) }  
}

fun <R : Comparable<R>> minBy(selector: (R) -> R): R? {
    val min = this.min()
    return if (min != null) {  
        this.minBy { selector(it) }  
    } else {  
        null  
    }  
}
minElem = this[0]
val lastIndex = this.lastIndex
if (lastIndex == 0) return minElem
var minValue = selector(minElem)
for (i in 1..lastIndex) {
    val e = this[i]
    val v = selector(e)
    if (minValue > v) {
        minElem = e
        minValue = v
    }
}
return minElem

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.minBy(selector: (UShort) -> UShort): UShort?
    return Array.get(this, minBySelector(minValue), lastIndex)

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.minWith(comparator: Comparator<in ULong>): ULong?
    return Array.get(this, minWithComparator(minValue, minWithPredicate(minValue)), lastIndex)

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte?
    return Array.get(this, minWithComparator(minValue, minWithPredicate(minValue)), lastIndex)

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort?
    return Array.get(this, minWithComparator(minValue, minWithPredicate(minValue)), lastIndex)

/**
 * Returns `true` if the array has no elements.
 */
@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.none(): Boolean?
    return isEmpty()
UByteArray.none(predicate: (UByte) -> Boolean): Boolean
*\n for (element in this) if (predicate(element)) return false\n return true\n
*\n** Returns `true` if no elements match the given [predicate].\n*\n * @sample samples.collections.Collections.Aggregates.noneWithPredicate

*\n@SinceKotlin("1.3")@UnExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(predicate: (UShort) -> Boolean): Boolean
*\n for (element in this) if (predicate(element)) return false\n return true\n
*\n** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n* \n* @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")@UnExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt
*\n if (isEmpty()) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) \n accumulator = operation(accumulator, this[index])\n return accumulator\n
*\n** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n* \n* @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")@UnExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong
*\n if (isEmpty()) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) \n accumulator = operation(accumulator, this[index])\n return accumulator\n
*\n** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n* \n* @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")@UnExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte
*\n if (isEmpty()) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) \n accumulator = operation(accumulator, this[index])\n return accumulator\n
*\n** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n* \n* @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")@UnExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort
*\n if (isEmpty()) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) \n accumulator = operation(accumulator, this[index])\n return accumulator\n
*\n** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n* \n* @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")@UnExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt
*\n if (isEmpty()) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) \n accumulator = operation(index, accumulator, this[index])\n return accumulator\n
*\n** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.\n* \n* @param [operation] function that takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")@UnExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong
*\n if (isEmpty()) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) \n accumulator = operation(index, accumulator, this[index])\n return accumulator\n
*\n** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.\n* \n* @param [operation] function that takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")@UnExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte
*\n if (isEmpty()) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) \n accumulator = operation(index, accumulator, this[index])\n return accumulator\n
*\n** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.\n* \n* @param [operation] function that takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")@UnExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort
*\n if (isEmpty()) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) \n accumulator = operation(index, accumulator, this[index])\n return accumulator\n
*\n** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.\n* \n* @param [operation] function that takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.\n* \n* @sample samples.collections.Collections.Aggregates.reduce
function that takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.

```kotlin
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
public inline fun UByteArray.reduceIndexed(operation: (Int, acc: UByte, UByte) -> UByte): UByte {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

The `reduceIndexed` function takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.

```kotlin
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
```

The `reduceIndexed` function takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.

```kotlin
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
public inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

The `reduceOrNull` function takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.

```kotlin
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
public inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) -> ULong): ULong? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

The `reduceOrNull` function takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.

```kotlin
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
public inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) -> UByte): UByte? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

The `reduceOrNull` function takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.

```kotlin
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```

The `reduceOrNull` function takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\
\n// Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n* \n* \n\nsamples.collections.Collections.Aggregates.reduceRight

*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\
\n// Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n* \n* \n\nsamples.collections.Collections.Aggregates.reduceRight

*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\
\n// Accumulates value starting with last element and applying [operation] from right to left to each element and its index in the original array and current accumulator value.\n* \n* \n\n@sample samples.collections.Collections.Aggregates.reduceRight

*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\
\n// Accumulates value starting with last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n* \n* \n* \n\n@sample samples.collections.Collections.Aggregates.reduceRight

*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\
\n// Accumulates value starting with last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n* \n* \n\n@sample samples.collections.Collections.Aggregates.reduceRight

*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\
\n// Accumulates value starting with last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n* \n* \n* \n\n@sample samples.collections.Collections.Aggregates.reduceRight

---

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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @sample sample.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt): UInt? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @sample sample.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) -> ULong): ULong? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @sample sample.collections.Collections.Aggregates.reduceRightOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) -> UByte): UByte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample sample.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample sample.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
    }
    return result
}
public inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value
 * that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */

public inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value
 * that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */

    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value
 * that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */

public inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 * [operation] from left to right to each element and current accumulator value
 * that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scan
 */
next accumulator value:

```kotlin
public inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right.
 * The index of each element is its index in the original array and current accumulator value that starts with [initial] value.
 * Note that ‘acc’ value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * * @sample samples.collections.Collections.Aggregates.scan
 */
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right.
 * The index of each element is its index in the original array and current accumulator value that starts with the first element of this array.
 * Note that ‘acc’ value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * * @sample samples.collections.Collections.Aggregates.scanReduce
 */
public inline fun UIntArray.scanReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UInt>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right.
 * The index of each element is its index in the original array and current accumulator value that starts with the first element of this array.
 * Note that ‘acc’ value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * * @sample samples.collections.Collections.Aggregates.scanReduce
 */
public inline fun ULongArray.scanReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<ULong>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right.
 * The index of each element is its index in the original array and current accumulator value that starts with the first element of this array.
 * Note that ‘acc’ value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * * @sample samples.collections.Collections.Aggregates.scanReduce
 */
public inline fun UByteArray.scanReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UByte>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

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mutated; otherwise it would affect the previous value in resulting list.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

* @sample

    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UShort>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

*public inline fun UIntArray.scanReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UInt>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

*public inline fun ULongArray.scanReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<ULong>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

*public inline fun UByteArray.scanReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UByte>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

*public inline fun UCharArray.scanReduceIndexed(operation: (index: Int, acc: UChar, UChar) -> UChar): List<UChar> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UChar>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UShort>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

*public inline fun UCharArray. scanReduceIndexed(operation: (index: Int, acc: UChar, UChar) -> UChar): List<UChar> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UChar>(size).apply {
        add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UShort>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumBy(selector: (ULong) -> ULong): ULong {
    var sum: ULong = 0u
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumBy(selector: (UByte) -> UByte): UByte {
    var sum: UByte = 0u
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumBy(selector: (UShort) -> UShort): UShort {
    var sum: UShort = 0u
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns a list of pairs built from the elements of ‘this’ array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of ‘this’ array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of ‘this’ array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of ‘this’ array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
from the elements of ‘this’ array and the [other] array with the same index. The returned list has length of the shortest collection. Returns a list of values built from the elements of ‘this’ array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection. Returns a list of values built from the elements of ‘this’ array and the [other] array with the same index using the provided [transform] function applied to each pair of elements.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun <R, V> UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<Pair<UByte, R>> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun <R, V> ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<Pair<ULong, R>> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V> UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<Pair<UInt, R>> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```
values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V> UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V> ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V> UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}
```kotlin
/**
 * Returns a list of values built from the elements of `this` array and the [other] array
 * using the provided [transform] function applied to each pair of elements. The returned
 * list has length of the shortest array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
    UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {
        val list = ArrayList<List<V>>(size)
        for (i in 0 until size) {
            list.add(transform(this[i], other[i]))
        }
        return list
    }

/**
 * Returns a list of values built from the elements of `this` array and the [other] array
 * using the provided [transform] function applied to each pair of elements. The returned
 * list has length of the shortest array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
    ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {
        val list = ArrayList<List<V>>(size)
        for (i in 0 until size) {
            list.add(transform(this[i], other[i]))
        }
        return list
    }

/**
 * Returns a list of values built from the elements of `this` array and the [other] array
 * using the provided [transform] function applied to each pair of elements. The returned
 * list has length of the shortest array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
    UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {
        val list = ArrayList<List<V>>(size)
        for (i in 0 until size) {
            list.add(transform(this[i], other[i]))
        }
        return list
    }

/**
 * Returns a list of values built from the elements of `this` array and the [other] array
 * using the provided [transform] function applied to each pair of elements. The returned
 * list has length of the shortest array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
        val list = ArrayList<List<V>>(size)
        for (i in 0 until size) {
            list.add(transform(this[i], other[i]))
        }
        return list
    }

/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
    UIntArray.sum(): UInt
        return storage.sum().toUInt()

/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
    ULongArray.sum(): ULong
        return storage.sum().toULong()

/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
    UByteArray.sum(): UInt
        return sumBy { it.toUInt() }

/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
    UShortArray.sum(): UInt
        return sumBy { it.toUInt() }

/*
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 * that can be found in the LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UCollectionsKt")

package
```
kotlin.collections

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed
import kotlin.random.Random

/**
 * Returns an array of UByte containing all of the elements of this collection.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UByte>.toUByteArray(): UByteArray {
    val result = UByteArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of UInt containing all of the elements of this collection.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UInt>.toUIntArray(): UIntArray {
    val result = UIntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of ULong containing all of the elements of this collection.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<ULong>.toULongArray(): ULongArray {
    val result = ULongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of UShort containing all of the elements of this collection.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UShort>.toUShortArray(): UShortArray {
    val result = UShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns the sum of all elements in the collection.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the greater of two values.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UInt, b: UInt): UInt {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: ULong, b: ULong): ULong {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UByte, b: UByte): UByte {
    return if (a >= b) a else b
}

/**
 * Returns the greater of three values.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UInt, b: UInt, c: UInt): UInt {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the greater of three values.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: ULong, b: ULong, c: ULong): ULong {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the greater of three values.
 */
@FunctionalInterface
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UByte, b: UByte, c: UByte): UByte {
    return maxOf(a, maxOf(b, c))
}

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 15977
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: UInt, b: UInt): UInt {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: ULong, b: ULong): ULong {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: UByte, b: UByte): UByte {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    return minOf(a, minOf(b, c))
}

/*
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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("URangesKt")

package kotlin.ranges

// THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt

import kotlin.random.*

/**
 * Returns a random element from this range, or `null` if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntRange.randomOrNull(): UInt? {
    if (isEmpty())
        return null
    return random.nextUInt(this)
}

/**
 * Returns a random element from this range, or `null` if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongRange.randomOrNull(): ULong? {
    if (isEmpty())
        return null
    return random.nextULong(this)
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
public fun UIntRange.randomOrNull(random: Random): UInt? {
    if (isEmpty())
        return null
    return random.nextUInt(this)
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
public fun ULongRange.randomOrNull(random: Random): ULong? {
    if (isEmpty())
        return null
    return random.nextULong(this)
}
public fun ULongRange.randomOrNull(random: Random): ULong? {
    if (isEmpty())
        return null
    return random.nextULong(this)
}

/**
 * Returns `true` if this range contains the specified [element].
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntRange.contains(element: UInt?): Boolean {
    return element != null && contains(element)
}

/**
 * Returns `true` if this range contains the specified [element].
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongRange.contains(element: ULong?): Boolean {
    return element != null && contains(element)
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun UIntRange.contains(value: UByte): Boolean {
    return contains(value.toUInt())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun ULongRange.contains(value: UByte): Boolean {
    return contains(value.toULong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun ULongRange.contains(value: UInt): Boolean {
    return contains(value.toULong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun ULongRange.contains(value: UShort): Boolean {
    return contains(value.toULong())
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * The returned progression is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun UByte.downTo(to: UByte): UIntProgression {
    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * The returned progression is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun UInt.downTo(to: UInt): UIntProgression {
    return UIntProgression.fromClosedRange(this, to, -1)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * The returned progression is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun ULong.downTo(to: ULong): ULongProgression {
    return ULongProgression.fromClosedRange(this, to, -1)
}

/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * The returned progression is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun UShort.downTo(to: UShort): UIntProgression {
    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 * The range is the same.
 * The returned progression is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun UIntProgression.reversed(): UIntProgression {
    return UIntProgression.fromClosedRange(this.toUInt(), toUIntInt(), -1)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 * The range is the same.
 * The returned progression is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun ULongProgression.reversed(): ULongProgression {
    return ULongProgression.fromClosedRange(this, toUIntLong(), -1)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 * The range is the same.
 * The returned progression is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun UShortProgression.reversed(): UShortProgression {
    return UShortProgression.fromClosedRange(this, toUIntShort(), -1)
}
UIntProgression {\n    checkStepIsPositive(step > 0, step)\n    return UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n} \n
UIntProgression {\n    checkStepIsPositive(step > 0, step)\n    return UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n} \n
/**
 * Returns a progression that goes over the same range with the given step.
 * @since 1.3
 * @param step the step size
 * @return the progression
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun ULongProgression.step(step: Long): ULongProgression {\n    checkStepIsPositive(step > 0, step)\n    return ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n} \n
/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * @since 1.3
 * @param to the maximum value
 * @return the range
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun UByte.until(to: UByte): UIntRange {\n    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n    return this.toUInt() .. (to - 1u).toUInt()\n} \n
/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If this [to] value is less than or equal to 'this' value, then the returned range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun UInt.until(to: UInt): UIntRange {\n    if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n    return this .. (to - 1u).toUInt()\n} \n
/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * This value is not less than the specified [minimumValue].\n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun UInt.coerceAtLeast(minimumValue: UInt): UInt {\n    return if (this < minimumValue) minimumValue else this\n} \n
/**
 * Ensures that this value is not less than the specified [minimumValue].\n * This value is not less than the specified [minimumValue].\n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun UByte.coerceAtLeast(minimumValue: UByte): UByte {\n    return if (this < minimumValue) minimumValue else this\n} \n
/**
 * Ensures that this value is not greater than the specified [maximumValue].\n * This value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun UInt.coerceAtMost(maximumValue: UInt): UInt {\n    return if (this > maximumValue) maximumValue else this\n} \n
/**
 * Ensures that this value is not greater than the specified [maximumValue].\n * This value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n    return if (this > maximumValue) maximumValue else this\n} \n
/**
 * Ensures that this value is not greater than the specified [maximumValue].\n * This value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun UShort.coerceAtMost(maximumValue: UShort): UShort {\n    return if (this > maximumValue) maximumValue else this\n} \n
/**
 * Ensures that this value is not greater than the specified [maximumValue].\n * This value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun ULong.coerceAtMost(maximumValue: ULong): ULong {\n    return if (this > maximumValue) maximumValue else this\n} \n
/**
 * Ensures that this value is not greater than the specified [maximumValue].\n * This value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun UShort.coerceAtMost(maximumValue: UShort): UShort {\n    return if (this > maximumValue) maximumValue else this\n} \n
/**
 * Ensures that this value is not greater than the specified [maximumValue].\n * This value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n    return if (this > maximumValue) maximumValue else this\n} \n
/**
 * Ensures that this value is not greater than the specified [maximumValue].\n * This value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n    return if (this > maximumValue) maximumValue else this\n} \n
/**
 * Ensures that this value is not greater than the specified [maximumValue].\n * This value is not greater than the specified [maximumValue].\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public infix fun ULong.coerceAtMost(maximumValue: ULong): ULong {\n    return if (this > maximumValue) maximumValue else this\n}
ULong): ULong {\n    return if (this > maximumValue) maximumValue else this\n}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or this value otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByte.coerceAtMost(maximumValue: UByte) {\n    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * 
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * 
 * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShort.coerceAtMost(maximumValue: UShort) {\n    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceInUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue\n    return this\n}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceInUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * 
 * @sample samples.comparisons.ComparableOps.coerceInUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`
 * 
 * @sample samples.comparisons.ComparableOps.coerceInRange
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShort.coerceInRange(minimumValue: UShort, maximumValue: UShort): UShort {\n    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`
 * 
 * @sample samples.comparisons.ComparableOps.coerceInRange
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceInRange(range: ClosedRange<UInt>): UInt {\n    return this.coerceIn<UInt>(range)\n}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * 
 * @return this value if it's in the range, or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`
 * 
 * @sample samples.comparisons.ComparableOps.coerceInRange
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceInRange(range: ClosedRange<ULong>): ULong {\n    return this.coerceIn<ULong>(range)\n}
(range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")
return when {
  this < range.start -> range.start
  this > range.endInclusive -> range.endInclusive
  else -> this
}

/**
 * Ensures that this value lies in the specified 
 
 * @return this value if it's in the 
 * range, or 'range.start' if this value is less than 'range.start', or 'range.endInclusive' if this value is greater than 
 * 'range.endInclusive'.

 * @sample samples.comparisons.ComparableOps.coerceInUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceIn(range: ClosedRange<ULong>): ULong {
  if (range is ClosedFloatingPointRange) {
    return this.coerceIn<ULong>(range)
  }
  if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")
  return when {
    this < range.start -> range.start
    this > range.endInclusive -> range.endInclusive
    else -> this
  }
}

/*
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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("USequencesKt")

package kotlin.sequences

/*
 * NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
 See:
 https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
 */

import kotlin.random.*

/**
 * Classes that inherit from this interface can
 * be represented as a sequence of elements that can be
 * iterated over.
 * @param T the type of element being iterated over. The iterator is covariant on its element type.
 */
public interface Iterable<out T> {
  /**
   * Returns an iterator over the elements of this object.
   */
  public operator fun iterator(): Iterator<T>
}

/**
 * Classes that inherit from this interface can
 * be represented as a sequence of elements that can be
 * iterated over and that supports removing elements during iteration.
 * @param T the type of element being iterated over.
 * The iterator is covariant on its element type.
 */
public interface MutableIterable<out T> : Iterable<T> {
  /**
   * Returns an iterator over the elements of this sequence that supports removing elements during iteration.
   */
  override fun iterator(): MutableIterator<T>
}

/**
 * A generic collection of elements. Methods in this
 * interface support only read-only access to the collection.
 * @param E the type of elements contained in the collection.
 */
public interface Collection<out E> : Iterable<E> {
  // Query Operations
  /**
   * Returns the size of the collection.
   */
  public val size: Int

  /**
   * Returns `true` if the
   * collection is empty (contains no elements), 'false' otherwise.
   */
  public fun isEmpty(): Boolean
}

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collection [elements] into this list at the specified [index].

*in * @return `true` if the list was changed as the result of the operation.

*?in public fun addAll(index: Int, elements: Collection<E>): Boolean

*?in override fun removeAll(elements: Collection<E>): Boolean

*?in override fun clear(): Unit

// Positional Access Operations

*/?in * Replaces the element at the specified position in this list with the specified element.

*?in * @return the element previously at the specified position.

*/?in public operator fun getset(index: Int, element: E): E

*/?in * Inserts an element into the list at the specified [index].

*/?in public fun add(index: Int, element: E): Unit

*/?in * Removes an element at the specified [index] from the list.

*/?in * @return the element that has been removed.

*/?in public fun removeAt(index: Int): E

// List Iterators

*/?in override fun listiterator(): MutableListIterator<E>

// View

*/?in override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>

*/?in override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean

*/?in * A generic unordered collection of elements that does not support duplicate elements.

*/?in * Methods in this interface support only read-only access to the set;

*/?in * read/write access is supported through the [MutableSet] interface.

*/?in * @param E the type of elements contained in the set. The set is covariant on its element type.

*/?in *@public interface MutableSet<E> : Set<E>, MutableCollection<E> {[

*/?in // Query Operations

*/?in override fun isEmpty(): Boolean

*/?in override fun contains(element: @UnsafeVariance E): Boolean

*/?in override fun add(element: E): Boolean

*/?in override fun containsAll(elements: Collection<E>): Boolean

*/?in override fun remove(element: E): Boolean

*/?in override fun retainAll(elements: Collection<E>): Boolean

*/?in override fun retainAll(elements: Collection<E>): Boolean

*/?in override fun clear(): Unit

*/?in override fun containsValue(value: @UnsafeVariance V): Boolean

*/?in override fun containsKey(key: K): Boolean

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): Boolean

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): Boolean

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): Boolean

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): Boolean

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): Boolean

*/?in override fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): Boolean
override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step $step"

    companion object {
        /**
         * Creates IntProgression within the specified bounds of a closed range.
         * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].
         * In order to go backwards the [step] must be negative.
         * [step] must be greater than 'Int.MIN_VALUE' and not equal to zero.
         * public fun fromClosedRange(start: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)
         */
        public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)
    }

/**
 * A progression of values of type `Long`.
 */
public open class LongProgression
    internal constructor
    (start: Long,
        endInclusive: Long,
        step: Long
    ) :
        Iterable<Long> {
    init {
        if (step == 0L) throw kotlin.IllegalArgumentException("Step must be non-zero.")
        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Long.MIN_VALUE to avoid overflow on negation.")
        if (step > 0) {
            first += step
        } else {
            first -= step
        }
    }

    /**
     * The first element in the progression.
     */
    public val first: Long = start

    /**
     * The last element in the progression.
     */
    public val last: Long = getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()

    /**
     * The step of the progression.
     */
    public val step: Long = step

    override fun iterator(): LongIterator = LongProgressionIterator(first, last, step)

    /** Checks if the progression is empty. */
    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last

    override fun equals(other: Any?): Boolean =
        other is LongProgression && (isEmpty() && other.isEmpty() ||
            first == other.first && last == other.last &&
            step == other.step)

    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()

    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"

    companion object {
        /**
         * Creates LongProgression within the specified bounds of a closed range.
         * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].
         * In order to go backwards the [step] must be negative.
         * [step] must be greater than 'Long.MIN_VALUE' and not equal to zero.
         * public fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)
         */
        public fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)
    }


list of code elements which are the possible annotation targets

```java
@Target(AnnotationTarget.ANNOTATION_CLASS)
@MustBeDocumented
@Retention(AnnotationRetention.RUNTIME)
public annotation class Target(vararg val allowedTargets: AnnotationTarget)
```

```java
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)
```

```java
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class Repeatable
```

```java
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class MustBeDocumented
```

```java
package kotlin.internal

/**
 * Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks
 * That means it's completely safe to use generic types as argument for such parameter.
 */
@Target(AnnotationTarget.TYPE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
@internal annotation class PureReifiable

/**
 * Specifies that the corresponding built-in method exists depending on platform.
 * Current implementation for JVM looks whether method with same JVM descriptor exists in the module JDK.
 * For example MutableMap.remove(K, V) available only if corresponding method 'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)
 */
@Target(AnnotationTarget.FUNCTION)
@Retention(AnnotationRetention.BINARY)
@internal annotation class PlatformDependent
```

```java
package kotlin.internal

// a mod b (in arithmetical sense)
private fun mod(a: Int, b: Int): Int {
    val mod = a % b
    return if (mod >= 0) mod else mod + b
}

private fun mod(a: Long, b: Long): Long {
    val mod = a % b
    return if (mod >= 0) mod else mod + b
}
```

```java
// (a - b) mod c
private fun
```
differenceModulo(a: Int, b: Int, c: Int): Int { return mod(mod(a, c) - mod(b, c), c)
}

private fun differenceModulo(a: Long, b: Long, c: Long): Long { return mod(mod(a, c) - mod(b, c), c)
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative [step].
 * No validation on passed parameters is performed. The given parameters should satisfy the condition:
 * - either `step > 0` and `start <= end`,
 * - or `step < 0` and `start >= end`.
 * @param start first element of the progression
 * @param end ending bound for the progression
 * @param step increment, or difference of successive elements in the progression
 * @return the final element of the progression
 *
 * @suppress
 */
@Suppress("unused")
@PublishedApi
internal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)
    else -> throw IllegalArgumentException("Step is zero.")
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative [step].
 * No validation on passed parameters is performed. The given parameters should satisfy the condition:
 * - either `step > 0` and `start <= end`,
 * - or `step < 0` and `start >= end`.
 *
 * @param start first element of the progression
 * @param end ending bound for the progression
 * @param step increment, or difference of successive elements in the progression
 * @return the final element of the progression
 *
 * @suppress
 */
@Suppress("unused")
@PublishedApi
internal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)
    else -> throw IllegalArgumentException("Step is zero.")
}

/*
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 *
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 */

package kotlin.reflect

/**
 * Represents a parameter passed to a function or a property getter/setter, including `this` and extension receiver parameters.
 */
public interface KParameter : KAnnotatedElement {
    /**
     * 0-based index of this parameter in the parameter list of its containing callable.
     */
    public val index: Int

    /**
     * Name of this parameter as it was declared in the source code, or `null` if the parameter has no name or its name is not available at runtime.
     */
    public val name: String?

    /**
     * Type of this parameter.
     */
    public val type: KType

    /**
     * Kind of this parameter.
     */
    public enum class Kind {
        INSTANCE,
        EXTENSION_RECEIVER,
        VALUE,
    }

    /**
     * `true` if this parameter is optional and can be omitted when making a call via `KCallable.callBy`, or `false` otherwise.
     */
    public val isOptional: Boolean

    /**
     * `true` if this parameter is `vararg`.
     */
    @SinceKotlin("1.1")
    public val isVararg: Boolean
}

/*
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 */
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* Represents a type. Type is usually either a class with optional type arguments,
  or a type parameter of some declaration, plus nullability.

* Environment::KAnnotatedElement
  * The declaration of the classifier used in this type.
  * For example, in the type `List<String>` the classifier would be the [KClass]
    instance for `List`. *
  * Returns `null` if this type is not denotable in Kotlin, for example if it is an
    intersection type.
  * @SinceKotlin("1.1")
  * public val classifier: KClassifier?
  *
  * Type arguments provided for the parameters of the classifier in this type.
  * For example, in the type `Array<out Number>` the only type argument is `out Number`.
  * In case this type is based on an inner class, the
    returned list contains the type arguments provided for the innermost class first,
    then its outer class, and so on.
  * For example, in the type `Outer<A, B>.Inner<C, D>` the returned list is `[C, D, A, B]`.

* @SinceKotlin("1.1")
  * public val arguments: List<KTypeProjection>
  *
  * `true` if this type was marked nullable in the source code.
  * For Kotlin types, it means that `null` value is allowed to be
    represented by this type.
  * In practice it means that the type was declared with a question mark at the end.
  * For non-Kotlin types, it means the type or the symbol which was declared with this type
    is annotated with a runtime-retained nullability annotation such as `@javax.annotation.Nullable`.

* Note that even if
  * `isMarkedNullable` is false, values of the type can still be `null`.
  * This may happen if it is a type of the type parameter with a nullable upper bound:
    `*` * fun `<T>` foo(<T> `T`)?
  * // `isMarkedNullable` == false for t's type, but t can be null here when T = `\Any`?
  * *an public val isMarkedNullable: Boolean
  *an*/
  * Represents a type projection. Type projection is usually the argument to another type in a
    type usage.
  * For example, in the type `Array<out Number>` `Number` is the covariant projection of the type
    represented by the class `Number`.

* Type projection is either the star projection, or an entity consisting of a
  specific type plus optional variance.

* * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)
  * for more information.

* *an@SinceKotlin("1.1")
  * public data class KTypeProjection constructor
  *
  * The use-site variance
    specified in the projection, or `null` if this is a star projection.
  * *an public val variance: KVariance?
  *
  * The type specified in the projection, or `null` if this is a star projection.

* *an public val type: KType?
  *
  * Creates an invariant projection of a given type.

* Invariant projection is just the type itself, without any use-site variance modifiers applied to it.

* For example, in the type `Set<String>` `String` is an invariant projection of the type represented by the class `String`.

* *an public fun invariant(type: KType):
  *
  * Type projection =
  *
  * Creates a contravariant projection of a given type, denoted by the `in` modifier applied to a type.

* For example, in the type `Array<Number>` `Number` is a contravariant projection of the type of class `Number`.

* *an public fun contravariant(type: KType):
  *
  * Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type.

* For example, in the type `Array<out Number>` `Number` is a covariant projection of the type of class `Number`.

* *an public fun covariant(type: KType):
  *
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  * on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  * See the License for the specific language governing permissions and limitations under the License. 

* package kotlin.reflect
  *
  * Represents variance applied to a type parameter on the declaration site.

* See the [Kotlin
language documentation](https://kotlinlang.org/docs/reference/generics.html#variance) for more information.

```kotlin
enum class SVariance {
    IN,
    OUT,
}
```

Visibility is an aspect of a Kotlin declaration regulating where that declaration is accessible in the source code. Visibility can be changed with one of the following modifiers: `public`, `protected`, `internal`, `private`. Note that some Java visibilities such as package-private and protected (which also gives access to items from the same package) cannot be represented in Kotlin, so there's no `KVisibility` value corresponding to them.

```kotlin
enum class KVisibility {
    PUBLIC,
    PROTECTED,
    INTERNAL,
    PRIVATE,
}
```

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The affected type parameter or type is *invariant*, which means it has no variance applied to it.

```kotlin
enum class KVariance {
    INVARIANT,
    IN,
    OUT,
}
```

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```kotlin
@JsName("arrayIterator")
internal fun arrayIterator(array: dynamic, type: String?) = when (type) {
    null -> {
        val arr: Array<dynamic> = array
        object : Iterator<dynamic> {
            var index = 0
            override fun hasNext() = index < arr.size
            override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("$index")
        }
    }
    "BooleanArray" -> booleanArrayIterator(array)
    "ByteArray" -> byteArrayIterator(array)
    "ShortArray" -> shortArrayIterator(array)
    "CharArray" -> charArrayIterator(array)
    "IntArray" -> intArrayIterator(array)
    "LongArray" -> longArrayIterator(array)
    "FloatArray" -> floatArrayIterator(array)
    "DoubleArray" -> doubleArrayIterator(array)
    else -> throw IllegalStateException("Unsupported type argument for arrayIterator: $type")
}
```

```kotlin
@JsName("booleanArrayIterator")
internal fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextBoolean() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}
```

```kotlin
@JsName("byteArrayIterator")
internal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextByte() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}
```

```kotlin
@JsName("shortArrayIterator")
internal fun shortArrayIterator(array: ShortArray) = object : ShortIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextShort() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}
```

```kotlin
@JsName("charArrayIterator")
internal fun charArrayIterator(array: CharArray) = object : CharIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextChar() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}
```

```kotlin
@JsName("intArrayIterator")
internal fun intArrayIterator(array: IntArray) = object : IntIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextInt() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}
```

```kotlin
@JsName("floatArrayIterator")
internal fun floatArrayIterator(array: FloatArray) = object : FloatIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextFloat() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}
```

```kotlin
@JsName("doubleArrayIterator")
internal fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextDouble() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}
```
fun equals(other: Any?): Boolean = other is Failure && exception == other

override fun hashCode(): Int = exception.hashCode()

override fun toString(): String = "Failure($exception)"

/**
 * Creates an instance of internal marker [Result.Failure] class to
 * make sure that this class is not
 * exposed in ABI.
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun createFailure(exception: Throwable): Any =
    Result.Failure(exception)

/**
 * Throws exception if the result is failure. This internal function
 * minimizes * inline bytecode for [getOrThrow] and makes sure that in the future we can
 * add some exception-augmenting logic here (if needed).
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun Result<*>.throwOnFailure() {
    if (value is Result.Failure) throw value.exception
}

/**
 * Calls the specified function [block] and returns its encapsulated result if invocation was successful
 * catching any
 * [Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {
    return try {
        Result.success(block())
    } catch (e: Throwable) {
        Result.failure(e)
    }
}

/**
 * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the
 * [defaultValue] if it is [failure][Result.isFailure].
 *
 * This function is a shorthand for `getOrElse { defaultValue }` (see 
 * [getOrElse]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R): R {
    if (isFailure) return defaultValue
    return value as T
}

/**
 * Returns the result of [onSuccess] for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].
 * Note, that this function rethrows any [Throwable] exception thrown by
 * [onSuccess] function. See [fold] for an alternative that
 * encapsulates exceptions.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.fold(
    onSuccess: (value: T) -> R,
    onFailure: (exception: Throwable) -> R
): R {
    contract {
        callsInPlace(onSuccess,
        InvocationKind.AT_MOST_ONCE)
        callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> onSuccess(value as T)
        else -> onFailure(exception)
    }
}

// transformation

/**
 * Returns the encapsulated result of the given
 * function applied to the encapsulated value
 * if this instance represents [success][Result.isSuccess] or
 * the original
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {
    contract {
        callsInPlace(transform, InvocationKind.AT_MOST_ONCE)
    }
    return when {
        isSuccess -> Result.success(transform(value as T))
        else -> Result(value)
    }
}
encapsulated [Throwable] exception if it is [failure][Result.isFailure].
* * * This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.
* * * See [map] for an alternative that rethrows exceptions from `transform` function.

```kotlin
open fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {
    return when {
        isSuccess -> runCatching { transform(value as T) }
        else -> Result(value)
    }
}

/**
 * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception.
 * if this instance represents [failure][Result.isFailure] or the original encapsulated value if it is [success][Result.isSuccess].
 * See [recover] for an alternative that rethrows exceptions.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {
    return when (val exception = exceptionOrNull()) {
        null -> this
        else -> runCatching { transform(exception) }
    }
}

/**
 * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception.
 * if this instance represents [failure][Result.isFailure] or the original encapsulated value if it is [success][Result.isSuccess].
 * This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.
 * See [recoverCatching] for an alternative that encapsulates exceptions.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {
    return when (val exception = exceptionOrNull()) {
        null -> this
        else -> runCatching { transform(exception) }
    }
}

// "peek" onto value/exception and pipe

/**
 * Performs the given [action] on the encapsulated [Throwable] exception if this instance represents
 * [failure][Result.isFailure].
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {
    exceptionOrNull()?.let { action(it) }
    return this
}

/**
 * Performs the given [action] on the encapsulated value if this instance represents
 * [success][Result.isSuccess].
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {
    if (isSuccess) action(value as T)
    return this
}

// -------------------

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 * license that can be found in the license/LICENSE.txt file.
 */

package kotlin.coroutines

import kotlin.coroutines.intrinsics.*
import kotlin.internal.InlineOnly

/**
 * Interface representing a continuation after
 * a suspension point that returns a value of type `T`.
 */
@SinceKotlin("1.3")
public interface Continuation<in T> {
    /**
     * The context of the coroutine that corresponds to this continuation.
     */
    public val context: CoroutineContext

    /**
     * Resumes the execution of the corresponding coroutine passing a successful or
     * failed [result] as the return value of the last suspension point.
     */
    public fun resumeWith(result: Result<T>): Unit
}

/**
 * Classes and interfaces marked with this annotation are restricted when used as receivers
 * for extension [suspend] functions. These [suspend] extensions can only invoke other member or extension
 * [suspend] functions on this particular receiver and are restricted from calling arbitrary suspension functions.
 */
@SinceKotlin("1.3")
@Target(AnnotationTarget.CLASS)
@Retention(AnnotationRetention.BINARY)
public annotation class RestrictsSuspension

/**
 * Resumes the execution of the corresponding coroutine passing a successful or
 * failed [result] as the return value of the last suspension point.
 */
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@Target(AnnotationTarget.CLASS)
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     * failed [result] as the return value of the last suspension point.
     */
    public fun resumeWith(result: Result<T>): Unit
}

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 * for extension [suspend] functions. These [suspend] extensions can only invoke other member or extension
 * [suspend] functions on this particular receiver and are restricted from calling arbitrary suspension functions.
 */
@SinceKotlin("1.3")
@Target(AnnotationTarget.CLASS)
@Retention(AnnotationRetention.BINARY)
public annotation class RestrictsSuspension

Continuation
 context: CoroutineContext
 crossinline resumeWith: (Result<T> -> Unit)?: Continuation<T>
 =
 object : Continuation<T> |
 override val context: CoroutineContext
 get() = context

 override fun resumeWith(result: Result<T>): Continuation<T> =
 resumeWith(result) |

 /* * Creates a coroutine without a receiver and with result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.
 * The [completion] continuation is invoked when the coroutine completes with a result or an exception.
 * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
 */

 @SinceKotlin("1.3")
 @Suppress("UNCHECKED_CAST")
 public fun <T> (suspend () -> T).createCoroutine(
    completion: Continuation<T>
): Continuation<Unit> =
 SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)

 /* * Creates a coroutine with receiver type [R] and result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * The [completion] continuation is invoked when the coroutine completes with a result or an exception.
 * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
 */

 @SinceKotlin("1.3")
 @Suppress("UNCHECKED_CAST")
 public fun <R, T> (suspend R.() -> T).createCoroutine(
    receiver: R,
    completion: Continuation<T>
): Continuation<Unit> =
 SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(), COROUTINE_SUSPENDED)

 /* * Starts a coroutine without a receiver and with result type [T].
 * This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.
 * The [completion] continuation is invoked when the coroutine completes with a result or an exception.
 * The same stack-frame where the suspension function is run or asynchronously later in the same thread or
 * from a different thread of execution. Subsequent invocation of any resume function will produce an
 * [IllegalStateException].
 */

 @SinceKotlin("1.3")
 @InlineOnly
 public suspend inline fun <T> suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T =
 suspendCoroutineUninterceptedOrReturn { c: Continuation<T> ->
    val safe = SafeContinuation(c.intercepted())
    block(safe)
    safe.getOrThrow()
}

 /* * Returns the context of the current coroutine.
 */

 @SinceKotlin("1.3")
 @InlineOnly
 public suspend inline val coroutineContext: CoroutineContext
    get() { throw NotImplementedError("Implemented as intrinsic")
    }

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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

 package kotlin.coroutines.intrinsics
 import kotlin.coroutines.*
 import kotlin.internal.InlineOnly

 /* * Returns the result of the coroutine or throws its exception if it does not suspend or
 * [COROUTINE_SUSPENDED] if it suspends.
 * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.
 * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might
 * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation
 * context is established.
 */

This function is designed to be used from inside of `suspendCoroutineUninterceptedOrReturn` to resume the execution of the suspended coroutine using a reference to the suspending function.

This function creates a new, fresh instance of suspendable computation every time it is invoked.

This function returns unintercepted continuation.

Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the `Continuation` instance.

This function returns unintercepted continuation.

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Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the `Continuation` instance.
This function shall be used on the immediate result of
[createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],
in which case it checks for
[ContinuationInterceptor] in the continuation's [context][Continuation.context],
invokes
[ContinuationInterceptor.interceptContinuation], caches and returns the result.
If this function is invoked on other [Continuation] instances it returns 'this' continuation unchanged.
This public actual fun <T> Continuation<T>.intercepted(): Continuation<T> =
(this as? CoroutineImpl).intercepted() :
this
private inline fun <T> createCoroutineFromSuspendFunction(
    completion: Continuation<T>,
crossinline block: () -> Any?) :
    @Suppress("UNCHECKED_CAST")
    return object
        : CoroutineImpl(completion as Continuation<Any?>) {
            override fun doResume(): Any? {
                exception?.let { throw it }
                return block()
            }
        }
    }

private inline fun isArrayish(o: dynamic) =
    js("Kotlin").isArrayish(o)

fun Double.withSign(sign: Double): Double {
    val thisSignBit =
        js("Kotlin").doubleSignBit(this).unsafeCast<Int>()
    val newSignBit =
        js("Kotlin").doubleSignBit(sign).unsafeCast<Int>()
    return if (thisSignBit == newSignBit) this else -
        this
}

fun Double.toBits(): Long =
    definedExternally()

fun Double.toRawBits(): Long =
    definedExternally()

fun Double.Companion.fromBits(bits: Long): Double =
    js("Kotlin").doubleFromBits(bits).unsafeCast<Double>()

fun Float.toBits(): Int =
    definedExternally()

fun Float.toRawBits(): Int =
    definedExternally()

fun Float.Companion.fromBits(bits: Float): Float =
    js("Kotlin").floatFromBits(bits).unsafeCast<Float>()

fun Float.Companion.safeFromBits(bits: Float): Float =
    js("Kotlin").floatFromBits(bits)

fun Float.Companion.fromBits(bits: Float): Float =
    js("Kotlin").floatFromBits(bits).unsafeCast<Float>()

fun Float.Companion.safeFromBits(bits: Float): Float =
    js("Kotlin").floatFromBits(bits)

fun Double.Companion.safeFromBits(bits: Double): Double =
    js("Kotlin").doubleFromBits(bits)

fun Double.Companion.fromBits(bits: Double): Double =
    js("Kotlin").doubleFromBits(bits).unsafeCast<Double>()

fun Double.Companion.safeFromBits(bits: Double): Double =
    js("Kotlin").doubleFromBits(bits)
asDynamic().draggable(params)\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")\n
@Deprecated("Use 'external' modifier instead.", level = DeprecationLevel.ERROR)\n
package kotlin.js

import kotlin.annotation.AnnotationTarget.*

@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, VALUE_PARAMETER, PROPERTY_GETTER, PROPERTY_SETTER)\n@Deprecated("Use 'external' modifier instead.")\n
@deprecated("Use 'external' modifier instead", level = DeprecationLevel.ERROR)\n
@Target(CLASS, FUNCTION, PROPERTY)
@Deprecated("Use 'external' modifier instead.")\n
@Target(CLASS, PROPERTY, FUNCTION)
@Deprecated("Use 'external' modifier instead.")\n
/**
 * Gives a declaration (a function, a property or a class) specific name in JavaScript. This may be useful in the following cases:
 * There are two functions for which the compiler gives same name in JavaScript, you can mark one with `@JsName(...)` to prevent the compiler from reporting error.
 * You are writing a JavaScript library in Kotlin. The compiler produces mangled names for functions with parameters, which is unnatural for usual JavaScript developer.
 * You can put `@JsName(...)` on functions you want to be available from JavaScript.
 * For some reason you want to rename declaration, e.g. there's common term in JavaScript for a concept provided by the declaration, which in uncommon in Kotlin.
 * The compiler produces the code relevant for the target module system, for example, in case of CommonJS, it will import the declaration via the `require(...)` function.
 * The annotation can be used on top-level external declarations (classes, properties, functions) and files.
 * In case of file (which can't be 'external') the following rule applies: all the declarations in the file must be 'external'. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contain all the declarations from the file.
 * The annotation can be used without module system. By default, an 'external' declaration is available regardless your target module system.
 * However, by applying [JsModule] annotation you can make a declaration unavailable to *plain* module system.
 * Some JavaScrit libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available as an npm package. To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation. For example:
 * Add prefix to 'external' declarations in a source file.
 */
does not have concept of packages (namespaces). They are usually emulated by nested objects.

The compiler turns references to `external` declarations either to plain unprefixed names (in case of *plain* modules) or to plain imports. However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this.

You can tell the compiler to generate additional prefix before references to `external` declarations using the `@JsQualifier(...)` annotation. Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.

Example:

```kotlin
package some.kotlinPackage

external fun foo(x: Int)

external fun bar(): String
```

The qualified form of `foo` and `bar` can be referenced like this:

```kotlin
some.kotlinPackage.someModule.foo(42)

some.kotlinPackage.someModule.bar() // Error: Unresolved reference
```

Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.

Example:

```kotlin
@file:JsQualifier("my.jsPackageName")

package some.kotlinPackage

external fun foo(x: Int)

external fun bar(): String
```

@property value the qualifier to add to the declarations in the generated code. It must be a sequence of valid JavaScript identifiers separated by the `.` character.

Examples of valid qualifiers are: `foo`, `bar.Baz`, `_$0.f`.

@see JsModule

@file:JsQualifier("my.jsPackageName")

package some.kotlinPackage

external fun foo(x: Int)

external fun bar(): String
```
add(index: Int, element: E): Unit  
abstract override fun removeAt(index: Int): E  
abstract override fun set(index: Int, element: E): E  
/** * Adds the specified element to the end of this list.  
* * @return true if this list already contained the specified element, * 
* @return false if this list did not already contain the specified * 
* element.  
*/
add(size, element)  
return true  
/** * actual override fun addAll(index: Int, elements: Collection<E>): Boolean  
* in elements)  
* actual override fun retainAll(elements: Collection<E>): Boolean  
* @return true if the specified index is valid, * 
* @return false if the specified index is invalid.  
* @throws IndexOutOfBoundsException if the index is out of range.  
*/
var _index = index  
var changed = false  
for (e in elements)  
add(_index++, e)  
changed = true  
return changed  
/** * actual override fun clear(): List<E>  
* * removeRange(startIndex, endIndex)  
* * protected open fun removeRange(0, size)  
* * protected open fun subList(fromIndex: Int, toIndex: Int)  
* * protected open fun removeRange(fromIndex: Int, toIndex: Int)  
* * protected open fun hasPrevious(): Boolean  
* * protected open fun previous(): E  
* * protected open fun previousIndex(): Int  
* * protected open fun removeAt(index: Int): E  
* * protected override fun removeAt(index: Int): E  
* * protected open fun addAt(index: Int, element: E)  
* * protected override fun addAt(index: Int, element: E): Unit  
* * protected override fun removeAt(index: Int): E  
* * protected open fun removeAt(index: Int): Unit  
* * protected open fun removeRange(fromIndex: Int, toIndex: Int)  
* * protected open fun removeRange(0, size)  
* * protected open fun subList(fromIndex: Int, toIndex: Int)  
* * protected open fun add(element: E)  
* * protected override fun add(element: E): E  
* * protected override fun addAll(elements: Collection<E>): Boolean  
* * protected open fun addAll(elements: Collection<E>): Boolean  
* * protected open fun addAll(elements: Collection<E>): Boolean
Provides a skeletal implementation of the `MutableSet` interface.

```java
protected actual constructor(): AbstractMutableCollection<E>(), MutableSet<E> { 

    /**
     * Compares this set with another set instance with the unordered structural equality.
     */
    override fun equals(other: Any?): Boolean {
        if (other === this) return true
        if (other !is Set<*>) return false
        return AbstractSet.setEquals(this, other)
    }

    /**
     * Returns the hash code value for this set.
     */
    override fun hashCode(): Int = AbstractSet.unorderedHashCode(this)
}
```

Kotlin Programming Language contributors.

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```kotlin
// so we create slightly more elements to test stability
for (index in 0 until 600)
```
override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0

override fun add(element: MutableEntry<K, V>): Boolean = false

override fun clear() {
    this@HashMap.clear()
}

override operator fun contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)

override operator fun iterator(): Collection<MutableEntry<K, V>> = internalMap.iterator()

override fun remove(element: MutableEntry<K, V>): Boolean {
    if (contains(element)) {
        this@HashMap.remove(element.key)
        return true
    }
    return false
}

override val size: Int get() = internalMap.size

actual override fun containsKey(key: K): Boolean = internalMap.containsKey(key)

actual override fun containsValue(value: V): Boolean = internalMap.any { equality.equals(it.value, value) }

actual override val entries: Set<MutableEntry<K, V>>

actual override operator fun get(key: K): V? = internalMap.get(key)

actual override fun remove(key: K): V? = internalMap.remove(key)

actual override fun put(key: K, value: V): V? = internalMap.put(key, value)

actual override val size: Int get() = internalMap.size

fun stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {
    return HashMap<String, V>(InternalStringMap(EqualityComparator.String)).apply {
        putAll(pairs)
    }
}
constructor(elements: Collection<E>) {
        map = HashMap<E, Any>(elements.size)
        addAll(elements)
    }

    /**
     * Constructs a new empty [HashSet].
     *
     * @param  initialCapacity the initial capacity
     * (ignored)
     */
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) {
        map = HashMap<E, Any>(initialCapacity, loadFactor)
    }

    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)

    /**
     * Protected constructor to specify the underlying map. This is used by
     * LinkedHashSet. @param map underlying map to use.
     */
    internal constructor(map: HashMap<E, Any>) {
        this.map = map
    }

    actual override fun add(element: E): Boolean {
        val old = map.put(element, this)
        return old == null
    }

    actual override fun clear() {
        map.clear()
    }

    /*
    * Implementation notes:
    *
    * A key's hashCode is the index in backingMap which should contain that
    * key. Since several keys may have the same hash, each value in hashcodeMap is actually an array containing all
    * entries whose keys share the same hash.
    */
    internal class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {

        private var backingMap: dynamic = createJsMap()
        override var size: Int = 0
            private set

        override fun put(key: K, value: V): V? {
            val hashCode = equality.getHashCode(key)
            val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null
            if (chainOrEntry == null) {
                // This is a new chain, put it to the map.
                backingMap[hashCode] = SimpleEntry(key, value)
            } else {
                if (chainOrEntry !is Array<*>) {
                    // It is an entry
                    val entry: MutableEntry<K, V> = chainOrEntry
                    if (equality.equals(entry.key, key)) {
                        return entry.setValue(value)
                    } else {
                        backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))
                        size++
                        return null
                    }
                } else {
                    // Chain already
                    val chain: Array<MutableEntry<K, V>> = chainOrEntry
                    for (index in chain.indices) {
                        val entry = chain[index]
                        if (equality.equals(key, entry.key)) {
                            if (chain.size == 1) {
                                chain.asDynamic().length = 0
                                // remove the whole array
                            } else {
                                // splice out the entry we're
                                removeing
                                chain.asDynamic().splice(index, 1)
                                size--
                                structureChanged(host)
                            }
                        }
                    }
                }
            }
        }

        override fun remove(key: K): V? {
            val hashCode = equality.getHashCode(key)
            val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null
            if (chainOrEntry !is Array<*>) {
                val entry: MutableEntry<K, V> = chainOrEntry
                if (equality.equals(entry.key, key)) {
                    if (entry != null) {
                        return entry.setValue(value)
                    } else {
                        backingMap[hashCode] = arrayOf(entryTakeOff, SimpleEntry(key, value))
                        size++
                        return null
                    }
                } else {
                    // Chain already
                    val chain: Array<MutableEntry<K, V>> = chainOrEntry
                    for (index in chain.indices) {
                        val entry = chain[index]
                        if (equality.equals(key, entry.key)) {
                            if (chain.size == 1) {
                                chain.asDynamic().length = 0
                                // remove the whole array
                            } else {
                                // splice out the entry we're
                                removing
                                chain.asDynamic().splice(index, 1)
                                size--
                                structureChanged(host)
                            }
                        }
                    }
                }
            }
override fun clear() {\n    backingMap = createJsMap()\n    size = 0\n} override fun contains(key: K): Boolean = getEntry(key) != null\noverride fun get(key: K): V? = getEntry(key).value\nprivate fun getEntry(key: K): MutableListEntry<V> = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\nval chainOrEntry = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\nval entry: MutableListEntry<V> = chainOrEntry if (equality.equals(entry.key, key)) {\n    return entry\n} else {\n    return null\n}\nelse {\n    return null\n}\n} else {\n    val chain: Array<MutableListEntry<V>> = chainOrEntry\n    return chain.findEntryInChain(key)\n}\nprivate fun Array<MutableListEntry<V>>.findEntryInChain(key: K): MutableListEntry<V> = firstOrNull { entry ->\n    equality.equals(entry.key, key) }\nprivate fun getEntry(key: K): MutableListEntry<V>? {\n    val chainOrEntry = backingMap[key]\n    if (chainOrEntry === undefined) null else chainOrEntry\n}\noverride fun iterator(): MutableListIterator<MutableListEntry<V>> {\n    return object : MutableListIterator<MutableListEntry<V>> {\n        var state = -1 // -1 not ready, 0 - ready, 1 - done\n        var keys: Array<String> = js("Object").keys(backingMap)\n        var keyIndex = -1\n        var chainOrEntry: dynamic = null\n        var isChain = false\n        var itemIndex = -1\n        var lastEntry: MutableListEntry<V>? = null\n        private fun computeNext(): Int {\n            if (chainOrEntry != null && isChain) {\n                val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableListEntry<V>>>().size\n                if (++itemIndex < chainSize) return 0\n            }\n            if (++keyIndex < keys.size) {\n                chainOrEntry = backingMap[keys[keyIndex]]\n                isChain = chainOrEntry is Array<*>\n                itemIndex = 0\n                return 0\n            } else {\n                chainOrEntry = null\n                return 1\n            }\n        }\n        override fun hasNext(): Boolean {\n            if (state == -1) state = computeNext()\n            return state == 0\n        }\n        override fun next(): MutableListEntry<V> {\n            if (!hasNext()) throw NoSuchElementException()\n            val lastEntry = if (isChain) {\n                chainOrEntry.unsafeCast<Array<MutableListEntry<V>>>().itemIndex[0]\n            } else {\n                chainOrEntry.unsafeCast<MutableListEntry<V>>()\n            }\n            this.lastEntry = lastEntry\n            state = -1\n            return lastEntry\n        }\n        override fun remove() {\n            checkNotNull(lastEntry)\n            this@InternalHashCodeMap.remove(lastEntry!!.key)\n            lastEntry = null\n            // the chain being iterated just got modified by InternalHashCodeMap.remove\n            itemIndex -= 1\n            }\n        }\n    }\n}
unnecessary override operator fun get(key: K): V? {
    if (key !is String) return null
    val value = backingMap[key]
    return if (value !== undefined) value.unsafeCast<V>() else null
}

override operator fun get(key: K): V? {
    if (key !is String) return null
    val oldValue = backingMap[key]
    return if (value !== undefined) {
        size++
        structureChanged(host)
        oldValue.unsafeCast<V>()
    } else {
        sizeMod++
        return oldValue
    }
}

override fun put(key: K, value: V): V? {
    require(key is String)
    val oldValue = backingMap[key]
    backingMap[key] = value

    if (oldValue === undefined) {
        size++
        structureChanged(host)
        return null
    } else {
        valueMod++
        return oldValue.unsafeCast<V>()
    }
}

override fun remove(key: K): V? {
    if (key !is String) return null
    val value = backingMap[key]
    if (value !== undefined) {
        jsDeleteProperty(backingMap, key)
        size--
        structureChanged(host)
        return value.unsafeCast<V>()
    } else {
        valueMod++
        return null
    }
}

override fun clear() {
    backingMap = createJsMap()
    size = 0
}

override fun function iterator(): MutableIterator<MutableEntry<K, V>> {
    return object : MutableIterator<MutableEntry<K, V>> {
        private val keys: Array<String> = js("Object").keys(backingMap)
        private val iterator = keys.iterator()
        private var lastKey: String? = null

        override fun hasNext(): Boolean = iterator.hasNext()

        override fun next(): MutableEntry<K, V> {
            val key = iterator.next()
            lastKey = key

            @Suppress("UNCHECKED_CAST")
            return newMapEntry(key as K)
        }

        override fun remove() {
            @Suppress("UNCHECKED_CAST")
            this@InternalStringMap.remove(checkNotNull(lastKey) as K)
        }
    }
}

private fun newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {
    override val key: K get() = key
    override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()

    override fun setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()

    override fun hashCode(): Int = AbstractMap.entryHashCode(this)
    override fun toString(): String = AbstractMap.entryToString(this)
    override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this, other)
}

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
/*
 * Based on GWT LinkedHashMap
 * Copyright 2008 Google Inc.
 */
package kotlin.collections

import kotlin.collections.MutableMap.MutableEntry

/**
 * Hash table based implementation of the [MutableMap] interface, which additionally preserves the insertion order of entries during the iteration. The insertion order is preserved by maintaining a doubly-linked list of all of its entries. The entry we use includes next/prev pointers for a doubly-linked circular list with a head node. This reduces the special cases we have to deal with in the list operations. Note that we duplicate the key from the underlying hash map so we can find the eldest entry. The alternative would have been to modify HashMap so more of the code was directly usable here, but this would have added some overhead to HashMap, or to reimplement most of the HashMap code here within * small modifications. Paying a small storage cost only if you use LinkedHashMap and minimizing code size seemed like a better tradeoff */

/*
 * actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {
 * The entry we use includes next/prev pointers for a doubly-linked circular list with a head node. This reduces the special cases we have to deal with in the list operations. Note that we duplicate the key from the underlying hash map so we can find the eldest entry. The alternative would have been to modify HashMap so more of the code was directly usable here, but this would have added some overhead to HashMap, or to reimplement most of the HashMap code here within * small modifications. Paying a small storage cost only if you use LinkedHashMap and minimizing code size seemed like a better tradeoff */

/*
 * public actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {
 * The entry we use includes next/prev pointers for a doubly-linked circular list with a head node. This reduces the special cases we have to deal with in the list operations. Note that we duplicate the key from the underlying hash map so we can find the eldest entry. The alternative would have been to modify HashMap so more of the code was directly usable here, but this would have added some overhead to HashMap, or to reimplement most of the HashMap code here within * small modifications. Paying a small storage cost only if you use LinkedHashMap and minimizing code size seemed like a better tradeoff */

/
package kotlin.collections

/**
 * The implementation of the [MutableSet] interface, backed by a [LinkedHashMap] instance.
 * This implementation preserves the insertion order of elements during the iteration.
 * @param initialCapacity the initial capacity (ignored)
 * @param loadFactor the load factor (ignored)
 * @throws IllegalArgumentException if the initial capacity or load factor are negative
 */
public actual open class LinkedHashSet<E> : HashSet<E>, MutableSet<E> {

    internal constructor(map: LinkedHashMap<E, Any>) : super(map)

    /**
     * Constructs a new empty [LinkedHashSet].
     */
    actual constructor() : super(LinkedHashMap<E, Any>())

    /**
     * Constructs a new empty [LinkedHashSet].
     * @param initialCapacity the initial capacity (ignored)
     * @param loadFactor the load factor (ignored)
     * @throws IllegalArgumentException if the initial capacity or load factor are negative
     */
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))

    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)

    /**
     * Constructs a new empty [LinkedHashSet].
     */
    actual constructor(elements: Collection<E>) : super(LinkedHashMap<E, Any>()) {
        addAll(elements)
    }

    /**
     * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified [String] elements.
     */
    public fun linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {
        return LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }
    }

    public override fun clone(): Any {
        return LinkedHashSet(this)
    }

}

package kotlin.io

internal abstract class BaseOutput {

    open fun println() {
        print("\n")
    }

    open fun println(message: Any?) {
        print(message)
        println()
    }

    abstract fun print(message: Any?)

    open fun flush() {}
}

/** JsName used to make the declaration available outside of module to test it */
@JsName("NodeJsOutput")
internal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {
    override fun print(message: Any?) {
        // TODO: Using local variable because of bug in block decomposition lowering in IR backend
        val messageString = String(message)
        outputStream.write(messageString)
    }
}

/** JsName used to make the declaration available outside of module to test it and use at try.kotlin */
@JsName("BufferedOutput")
internal open class BufferedOutput : BaseOutput() {
    var buffer = ""

    override fun print(message: Any?) {
        buffer += String(message)
    }

    override fun flush() {
        buffer = ""
    }
}

/** JsName used to make the declaration available outside of module to test it */
@JsName("BufferedOutputToConsoleLog")
internal class BufferedOutputToConsoleLog : BufferedOutput() {
    override fun print(message: Any?) {
        buffer += String(message)
    }
}

/** JsName used to make the declaration available outside of module to test it */
@JsName("output")
internal var output = run {
    val isNode: Boolean = js("typeof process !== 'undefined' && process.versions && !!process.versions.node")
    if (isNode) NodeJsOutput(js("process.stdout")) else BufferedOutputToConsoleLog()
}

/** Prints the line separator to the standard output stream. */
public actual fun println() {
    output.println()
}
output.println() /* Prints the given [message] and the line separator to the standard output stream. */

/**
 * Prints the given [message] to the standard output stream.
 */
public actual fun println(message: Any?) {
    output.println(message)
}

/**
 * Prints the given [message] and the line separator to the standard output stream.
 */
public actual fun println(message: Any?) /* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors */

package kotlin.coroutines

import kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED

@PublishedApi
@SinceKotlin("1.3")
internal actual class SafeContinuation<in T> : Continuation<T> {
    @PublishedApi
    internal actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)

    internal actual constructor(delegate: Continuation<T>, initialResult: Any?) : 
        this(delegate, initialResult)

    public actual override val context: CoroutineContext
        get() = delegate.context

    private var result: Any? = initialResult

    public actual override fun resumeWith(result: Result<T>) {
        val cur = this.result
        when {
            cur === UNDECIDED -> {
                this.result = result.value
            }
            cur === COROUTINE_SUSPENDED -> {
                this.result = RESUMED
                delegate.resumeWith(result)
            }
            else -> throw IllegalStateException("Already resumed")
        }
    }

    @PublishedApi
    internal actual fun getOrThrow(): Any? {
        if (result === UNDECIDED) {
            result = COROUTINE_SUSPENDED
            return COROUTINE_SUSPENDED
        }
        val result = this.result
        return when {
            result === RESUMED ->
                try {
                    delegate.resumeWith(result)
                } catch (e: Throwable) {
                    throw result
                }
            result is Result.Failure -> throw result
            else -> result
        }
    }

package kotlin.js

/**
 * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.
 */
@Suppress("NOT_DOCUMENTED")
public external class Date() {
    public constructor(milliseconds: Number)

    public constructor(dateString: String)

    public constructor(year: Int, month: Int)

    public constructor(year: Int, month: Int, day: Int)

    public constructor(year: Int, month: Int, day: Int, hour: Int)

    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)

    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)

    public fun getDate(): Int

    public fun getDay(): Int

    public fun getFullYear(): Int

    public fun getHours(): Int

    public fun getMilliseconds(): Int

    public fun getMinutes(): Int

    public fun getMonth(): Int

    public fun getSeconds(): Int

    public fun getTime(): Double

    public fun getTimezoneOffset(): Int

    public fun toDateString(): String

    public fun toISOString(): String

    public fun toJSON(): Json

    public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String

    public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String

    public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String

    public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String

    public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String

    public fun toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String

    public fun
the specified [index] to the specified [value].

* @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.

* @param endIndex the end (exclusive) of the range to remove.

* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.

* @param value the string to replace with.

* @param index the index of `Char` to remove.

* @throws IndexOutOfBoundsException if the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.

* @param destinationOffset the position in the array to copy to, 0 by default.

* @param startIndex the beginning (inclusive) of the range to copy, 0 by default.

* @param value the array from which characters are appended.

* @param startIndex the beginning (inclusive) of the range to copy, length of this string builder by default.

* @param value the character sequence from which a subsequence is appended.

* @param startIndex the end (exclusive) of the range to copy, length of this string builder by default.

* @param endOffset the end (exclusive) of the range to remove.

* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.

* @param value the array from which characters are appended.

* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.

* @param endIndex the end (exclusive) of the range to remove.

* @param value the array from which characters are inserted.

* @param index the position in this string builder to insert at.

* @param value the array from which characters are inserted.
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package kotlin.dom

import org.w3c.dom.*

/** Removes all the children from this node. */
public fun Node.clear() {
    while (hasChildNodes()) {
        removeChild(firstChild!!)
    }
}

/**
 * Creates text node and append it to the
 * element.
 */
@fun Element.appendText(text: String): Element

package kotlin.js

/**
 * Reinterprets this value
 * as a value of the [dynamic type](/docs/reference/dynamic-type.html).
 */
@kotlin.internal.InlineOnly
public inline fun Any?.asDynamic(): dynamic = this

/**
 * Reinterprets this value as a value of the specified type [T]
 * without any actual type checking.
 */
@kotlin.js.NoInfer
public inline fun <T> Any?.unsafeCast(): @kotlin.js.NoInfer T

/**
 * Allows to iterate this `dynamic` object in the following cases:
 * - when it has an `iterator` function,
 * - when it is an array
 * - when it is an instance of [kotlin.collections.Iterable]
 */
operator fun dynamic.iterator(): Iterator<dynamic> { // TODO: remove workarounds for KT-22053 from
direct Throwable inheritors
    val r: Any? = this

    return when {
        this["iterator"] != null -> this["iterator"]().unaryPlus(r)
        isArrayish(r) -> r.unsafeCast<Array<*>>().iterator()
        else -> (r as Iterable<*>).iterator()
    }
}

package kotlin

// TODO: remove workarounds for KT-22053 from
direct Throwable inheritors
// TODO: remove primary constructors, make all secondary KT-
22055

@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")
public actual open class Error {
    constructor() : super()
    constructor(message: String?) : super(message)
    constructor(message: String?, cause: Throwable?) : super(message, cause)
    constructor(cause: Throwable?) : super(cause)
    constructor(cause: Throwable?) : super(cause)
    constructor(cause: Throwable?) : super(cause)
}

@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")
public actual open class Exception {
    constructor() : super()
    constructor(message: String?) : super(message)
    constructor(message: String?, cause: Throwable?) : super(message, cause)
    constructor(cause: Throwable?) : super(cause)
    constructor(cause: Throwable?) : super(cause)
}

public actual open class RuntimeException {
    constructor() : super()
    constructor(message: String?) : super(message)
    constructor(message: String?, cause: Throwable?) : super(message, cause)
    constructor(cause: Throwable?) : super(cause)
    constructor(cause: Throwable?) : super(cause)
}

public actual open class IllegalArgumentException {
    constructor() : super()
    constructor(message: String?) : super(message)
    constructor(message: String?, cause: Throwable?) : super(message, cause)
    constructor(cause: Throwable?) : super(cause)
    constructor(cause: Throwable?) : super(cause)
}

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16020
IllegalStateException
    actual constructor(message: String?, cause: Throwable?) : this(undefined, cause)
    actual constructor() : this(cause)
    constructor(message: String?) : this(message, cause)
    constructor(cause: Throwable?) : this(cause)
fun sourceIterator(): Iterator<T>

fun keyOf(element: T): K

@SinceKotlin("1.1")
public inline fun <T, K, R>
Grouping<T, K>.aggregate(
    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R
): Map<K, R> {
    return aggregateTo(mutableMapOf<K, R>(), operation)
}

@SinceKotlin("1.1")
public inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.aggregateTo(
    destination: M,
    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R
): M {
    for (e in this.sourceIterator()) {
        val key = keyOf(e)
        val accumulator = destination[key]
        destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))
    }
    return destination
}

@SinceKotlin("1.1")
public inline fun <T, K, R>
Grouping<T, K>.fold(
    initialValueSelector: (key: K, element: T) -> R,
    operation: (key: K, accumulator: R, element: T) -> R
): Map<K, R> =
@Suppress("UNCHECKED_CAST")
    aggregate { key, acc, e -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }

@SinceKotlin("1.1")
public inline fun <T, K> Grouping<T, K>.foldByEvenLengthWithComputedInitialValue()

each element with the following parameters:

- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.

*return the [destination] map associating the key of each group with the result of accumulating the group elements.*

samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo

*Public inline function* `<T, K, R> Grouping<T, K>.foldTo(R)>

*Initial Value Selector:* (key: K, element: T) -> R

*Operation:* (key: K, accumulator: R, element: T) -> R

*Return:* M

@Suppress("UNCHECKED_CAST")
aggregateTo(destination) { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }]

*Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially.*

*Passing the previously accumulated value and the current element as arguments, and stores the results in a new map.*

*An initial value of accumulator is the same [initialValue] for each group.*

*return a [Map] associating the key of each group with the result of accumulating the group elements.*

samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo

*Public inline function* `<T, K, R> Grouping<T, K>.fold(R)>

*Initial Value:* R

*Operation:* (accumulator: R, element: T) -> R

*Return:* Map

@Suppress("UNCHECKED_CAST")
aggregate { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }

*Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially.*

*Passing the previously accumulated value and the current element as arguments, and stores the results in the given [destination] map.*

*An initial value of accumulator is the same [initialValue] for each group.*

*Passing the previously accumulated value and the current element as arguments, stores the results in a new map.*

*An initial value of accumulator is the first element of the group.*

*return a [Map] associating the key of each group with the result of accumulating the group elements.*

samples.collections.Grouping.reduceByMaxVowels

*Public inline function* `<S, T, K> Grouping<T, K>.reduce(S)>

*Operation:* (key: K, accumulator: S, element: T) -> S

*Return:* Map

*An initial value of accumulator is the first element of the group.*

*return a [Map] associating the key of each group with the result of accumulating the group elements.*

samples.collections.Grouping.reduceByMaxVowelsTo

*Public inline function* `<S, T, K> Grouping<T, K>.reduceTo(S)>

*Operation:* (key: K, accumulator: S, element: T) -> S

*Return:* Map

@Suppress("UNCHECKED_CAST")
aggregate { key, acc, e, first -> operation(key, if (first) e else operation(key, acc as S, e) as S) }

*Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group sequentially starting from the second element of the group.*

*Passing the previously accumulated value and the current element as arguments, and stores the results in a new map.*

*An initial value of accumulator is the first element of the group.*

*return a [Map] associating the key of each group with the result of accumulating the group elements.*

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accumulator of the group:

```kotlin
@null

* `-element`: the element from the source being folded:

```kotlin
@null

* `@return` the

```kotlin
[destination] map associating the key of each group with the result of accumulating the group elements.

```kotlin
@sample

[Grouping] reduceByMaxVowelsTo

```kotlin
@null

`\text{null}`public inline fun <S, T : S, K : MutableMap\langle K, S \rangle> Grouping\langle T, K \rangle.reduceTo(\n
```kotlin
@null

`\text{null}`operation: (key: K, accumulator: S, element: T) -> S): M =\n
```kotlin
@null

aggregateTo(destination) { key, acc, e, first -> \n
```kotlin
@Suppress("UNCHECKED_CAST")

if (first) e else operation(key, acc as S, e)\n
```kotlin
@sample

[Grouping] source by key and counts elements in each group to the given [destination] map:

```kotlin
@null

`\text{null}`If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the counter for that group:

```kotlin
@null

`\text{null}`return the [destination] map associating the key of each group with the count of elements in the group:

```kotlin
@null

`\text{null}`If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the sum for that group:

```kotlin
@null

`\text{null}`return the [destination] map associating the key of each group with the sum of elements in the group:

```kotlin
@null

`\text{null}`eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =

```kotlin
@null

foldTo(destination, 0) { acc, e -> acc + valueSelector(e)}\n
```kotlin
@sample

[Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group:

```kotlin
@sample

[Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group:

```kotlin
@sample

[Grouping] source by key and counts elements in each group to the given [destination] map:

```kotlin
@null

`\text{null}`If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the sum for that group:

```kotlin
@null

`\text{null}`return the [destination] map associating the key of each group with the count of elements in the group:

```kotlin
@null

`\text{null}`return the [destination] map associating the key of each group with the count of elements in the group:

```kotlin
@null

`\text{null}`return the [destination] map associating the key of each group with the count of elements in the group:

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```kotlin
@null

`\text{null}`return the [destination] map associating the key of each group with the count of elements in the group:

```kotlin
@null

`\text{null}`return the [destination] map associating the key of each group with the count of elements in the group:
DeprecationLevel.ERROR)
    public fun max(vararg values: Int): Int @Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)
    public fun max(vararg values: Float): Float
        @Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)
    public fun max(vararg values: Double): Double
        @Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)
        @PublishedApi
        internal fun trunc(value: Number): Int
        @PublishedApi
        internal fun sign(value: Number): Double
    }

    @PublishedApi
    internal fun sinh(value: Double): Double
    @PublishedApi
    internal fun cosh(value: Double): Double
    @PublishedApi
    internal fun tanh(value: Double): Double
    @PublishedApi
    internal fun asinh(value: Double): Double
    @PublishedApi
    internal fun acosh(value: Double): Double
    @PublishedApi
    internal fun atanh(value: Double): Double
    @PublishedApi
    internal fun hypot(x: Double, y: Double): Double
    @PublishedApi
    internal fun expm1(value: Double): Double
    @PublishedApi
    internal fun log10(value: Double): Double
    @PublishedApi
    internal fun log2(value: Double): Double
    @PublishedApi
    internal fun log1p(value: Double): Double
    @PublishedApi
    internal fun clz32(value: Int): Int
}

/**
 * Returns the smaller of two values.
 */
@Suppress("DEPRECATION")
@Deprecated("Use minOf or kotlin.math.min instead",
    ReplaceWith("minOf(a, b)"), level = DeprecationLevel.ERROR)
public fun Math.min(a: Long, b: Long): Long =
    if (a <= b) a else b

/**
 * Returns the greater of two values.
 */
@Suppress("DEPRECATION")
@Deprecated("Use maxOf or kotlin.math.max instead",
    ReplaceWith("maxOf(a, b)"), level = DeprecationLevel.ERROR)
public fun Math.max(a: Long, b: Long):
    if (a >= b) a else b

*\*\*

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*\*\*

*\*\*

*\*\*
```kotlin
public fun json(vararg pairs: Pair<String, Any?>): Json {
    val res: dynamic = js("({})")
    for ((name, value) in pairs) {
        res[name] = value
    }
    return res
}

/**
 * Adds key-value pairs from `other` to `this`.
 * Returns the original receiver.
 */
public fun Json.add(other: Json): Json {
    val keys: Array<String> = js("Object").keys(other)
    for (key in keys) {
        if (other.asDynamic().hasOwnProperty(key)) {
            this[key] = other[key]
        }
    }
    return this
}

/**
 * Exposes the JavaScript `JSON` object to Kotlin.
 */
@Suppress("NOT_DOCUMENTED")
public external object JSON {
    public fun stringify(o: Any?): String
    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)?): String
    public fun stringify(o: Any?, replacer: Array<String>): String
    public fun stringify(o: Any?, replacer: Array<String>, space: Int): String
    public fun <T> parse(text: String): T
    public fun <T> parse(text: String, reviver: ((key: String, value: Any?) -> Any?)?): T
}

---

```
tanh(x) = \frac{e^x - e^{-x}}{e^x + e^{-x}}

\text{asinh}(x) = \ln(x + \sqrt{x^2 + 1})

\text{acosh}(x) = \ln(x + \sqrt{x^2 - 1})

\text{atanh}(x) = \frac{1}{2} \ln\left(\frac{1 + x}{1 - x}\right)

\text{hypot}(x, y) = \sqrt{x^2 + y^2}

\text{sqrt}(x) = \sqrt{x}

\text{exp}(x) = e^x

\text{expm1}(x) = e^x - 1

\text{ln}(x) = \ln(x)

\text{log10}(x) = \log_{10}(x)

\text{log2}(x) = \log_2(x)

\text{ln1p}(x) = \ln(1 + x)

\text{ceil}(x) = \text{min}(n \in \mathbb{Z} | n \geq x)

\text{floor}(x) = \text{max}(n \in \mathbb{Z} | n \leq x)

\text{round}(x) = \text{nearest integer to } x
value to the nearest integer and converts the result to [Int].

Special cases:
- `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`
- `-x.roundToInt() == Int.MIN_VALUE` when `-x < Int.MIN_VALUE`

Ties are rounded towards positive infinity.

Special cases:
- `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`
- `x.roundToInt() == Int.MIN_VALUE` when `-x < Int.MIN_VALUE`

@throws IllegalArgumentException when this value is `NaN`

This < Int.MAX_VALUE -> Int.MAX_VALUE

else ->

nativeMath.round(this).toInt()toInt() roundToInt() Rounds this [Double] value to the nearest integer and converts the result to [Long].

Ties are rounded towards positive infinity.

Special cases:
- `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`
- `x.roundToLong() == Long.MIN_VALUE` when `-x < Long.MIN_VALUE`

@throws IllegalArgumentException when this value is `NaN`

This < Long.MAX_VALUE -> Long.MAX_VALUE

else ->

nativeMath.round(this).toLong() toLong()roundToLong() Computes the sine of the angle [x] given in radians.

Special cases:
- `sin(NaN|+Inf|-Inf)` is `NaN`
- `sin(0)` is `0`

(value: Float) = nativeMath.sin(x.toDouble()).toFloat()

(value: Float) = nativeMath.cos(x.toDouble()).toFloat()

(value: Float) = nativeMath.tan(x.toDouble()).toFloat()

(value: Float) = nativeMath.asin(x.toDouble()).toFloat()

(value: Float) = nativeMath.acos(x.toDouble()).toFloat()

(value: Float) = nativeMath.atan(x.toDouble()).toFloat()

Special cases:
- `sinh(NaN)` is `NaN`
- `sinh(+Inf)` is `+Inf`
- `sinh(-Inf)` is `-Inf`

(value: Float) = nativeMath.sinh(x.toDouble()).toFloat()

(value: Float) = nativeMath.cosh(x.toDouble()).toFloat()

(value: Float) = nativeMath.tanh(x.toDouble()).toFloat()

(value: Float) = nativeMath.atanh(x.toDouble()).toFloat()

(value: Float) = nativeMath.atan2(y, x) Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value `y / x`.

Special cases:
- `atan(0)` is `0`
- `atan(1)` is `PI/4`
- `atan(2)` is `PI/2`
- `atan(-1)` is `-PI/4`
- `atan(-2)` is `-PI/2`
- `atan(NaN)` is `NaN`

(value: Float) = nativeMath.atan2(y, x) Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value `y / x`.

Special cases:
- `atan(0)` is `0`
- `atan(1)` is `PI/4`
- `atan(2)` is `PI/2`
- `atan(-1)` is `-PI/4`
- `atan(-2)` is `-PI/2`
- `atan(NaN)` is `NaN`

(value: Float) = nativeMath.atan2(y, x) Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value `y / x`.

Special cases:
- `atan(0)` is `0`
- `atan(1)` is `PI/4`
- `atan(2)` is `PI/2`
- `atan(-1)` is `-PI/4`
- `atan(-2)` is `-PI/2`
- `atan(NaN)` is `NaN`
The returned value is \( y \) such that \( \sinh(y) = x \). Special cases:

- \( \text{asinh}(\text{NaN}) = \text{NaN} \)  
- \( \text{asinh}(\pm\text{Inf}) = \pm\text{Inf} \)

### asinh

```kotlin
/**
 * Computes the inverse hyperbolic sine of the value \[x\]. \n * The returned value is positive \( y \) such that \( \cosh(y) = x \). 
 * Special cases:
 * - \( \text{asinh}(\text{NaN}) = \text{NaN} \)  
 * - \( \text{asinh}(\pm\text{Inf}) = \pm\text{Inf} \)
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()
```

### acosh

```kotlin
/**
 * Computes the inverse hyperbolic cosine of the value \[x\]. 
 * The returned value is positive \( y \) such that \( \cosh(y) = x \). 
 * Special cases:
 * - \( \text{acosh}(\text{NaN}) = \text{NaN} \)  
 * - \( \text{acosh}(\pm\text{Inf}) = \pm\text{Inf} \)
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()
```

### atanh

```kotlin
/**
 * Computes the inverse hyperbolic tangent of the value \[x\]. 
 * The returned value is \( y \) such that \( \tanh(y) = x \). 
 * Special cases:
 * - \( \text{atanh}(\text{NaN}) = \text{NaN} \)  
 * - \( \text{atanh}(\pm\text{Inf}) = \pm\text{Inf} \)
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()
```

### hypot

```kotlin
/**
 * Computes \( \sqrt{x^2 + y^2} \) without intermediate overflow or underflow. 
 * Special cases:
 * - returns \( +\text{Inf} \) if any of arguments is infinite \( x \) or \( y \) 
 * - returns \( \text{NaN} \) if any of arguments is \( \text{NaN} \) and the other is not infinite
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()
```

### sqrt

```kotlin
/**
 * Computes the positive square root of the value \[x\]. 
 * Special cases:
 * - \( \sqrt{\text{NaN}} \) is \( \text{NaN} \)  
 * - \( \sqrt{\text{NaN}} \) is \( \text{NaN} \) when \( x < 0 \)
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()
```

### exp

```kotlin
/**
 * Computes \( e^x \). 
 * Special cases:
 * - \( \exp(\text{NaN}) \) is \( \text{NaN} \)  
 * - \( \exp(+\text{Inf}) \) is \( +\text{Inf} \)  
 * - \( \exp(-\text{Inf}) \) is \( 0.0 \)  
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()
```

### expm1

```kotlin
/**
 * Computes \( e^x - 1 \). 
 * This function can be implemented to produce more precise result for \( x \) near zero. 
 * Special cases:
 * - \( \expm1(\text{NaN}) \) is \( \text{NaN} \)  
 * - \( \expm1(+\text{Inf}) \) is \( +\text{Inf} \)  
 * - \( \expm1(-\text{Inf}) \) is \( -1.0 \)  
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun expm1(x: Float): Float = nativeMath.expm1(x.toDouble()).toFloat()
```

### log

```kotlin
/**
 * Computes the natural logarithm (base \( E \)) of the value \[x\]. 
 * Special cases:
 * - \( \log(x) \) is \( \text{NaN} \) when \( x \leq 0 \)  
 * - \( \log(\text{NaN}) \) is \( \text{NaN} \)  
 * - \( \log(+\text{Inf}) \) is \( +\text{Inf} \)  
 * - \( \log(-\text{Inf}) \) is \( -\text{Inf} \)
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()
```

### log10

```kotlin
/**
 * Computes the common logarithm (base 10) of the value \[x\]. 
 * @see \[log\] function for special cases.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()
```

### log2

```kotlin
/**
 * Computes the logarithm of the value \[x\] to the given \[base\]. 
 * Special cases:
 * - \( \log_{10}(\text{NaN}) \) is \( \text{NaN} \)  
 * - \( \log_{10}(\text{Inf}) \) is \( +\text{Inf} \)  
 * - \( \log_{10}(0.0) \) is \( -\text{Inf} \)
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()
```

### ceil

```kotlin
/**
 * Rounds the given value \( x \) to the nearest integer towards positive infinity. 
 * Special cases:
 * - \( \text{ceil}(\text{NaN}) \) is \( \text{NaN} \)  
 * - \( \text{ceil}(+\text{Inf}) \) is \( +\text{Inf} \)  
 * - \( \text{ceil}(-\text{Inf}) \) is \( -\text{Inf} \)
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()
```
mathematical integer.
*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun floor(x: Float): Float =
nativeMath.floor(x.toDouble()).toFloat()

/**
 * Rounds the given value [x] to an integer towards zero.
 * Returns the absolute value of the given value [x].
 * @return the value [x] having its fractional part truncated.
 * Special cases:
 *   - `floor(-0.0)` is `-0.0`
 *   - `floor(NaN)` is `NaN`
 *   - `floor(+ Infinity)` or `- Infinity` and already a mathematical integer.
 */
@SinceKotlin("1.2")
@InlineOnly
public @SinceKotlin("1.2") @InlineOnly actual inline fun round(x: Float): Float =
round(x.toDouble()).toFloat()

/**
 * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.
 * Returns the absolute value of the given value [x].
 * @return the value where `x` is `\(\text{\`Na\`N}` or `\(+\text{\`Inf\}` or `-\text{\`Inf\}` or already a mathematical integer.
 */
@SinceKotlin("1.2")
@InlineOnly
public @SinceKotlin("1.2") @InlineOnly actual inline fun min(a: Float, b: Float): Float =
nativeMath.min(a, b)

/**
 * Returns the greater of two values.
 * If either value is `\(\text{\`NaN\}``, then the result is `-1.0`.
 */
@SinceKotlin("1.2")
@InlineOnly
public @SinceKotlin("1.2") @InlineOnly actual inline fun max(a: Float, b: Float): Float =
nativeMath.max(a, b)

// extensions

/**
 * This is an extension function.
 */
@SinceKotlin("1.2")
@InlineOnly
public @SinceKotlin("1.2") @InlineOnly actual inline fun Float.plus(a: Float): Float =
this.toDouble().plus(a.toDouble()).toFloat()

/**
 * Returns the sign of the given value [x].
 */
@SinceKotlin("1.2")
@InlineOnly
public @SinceKotlin("1.2") @InlineOnly actual inline fun abs(x: Float): Float =
nativeMath.abs(x.toDouble()).toFloat()

/**
 * Raises this value to the power [x].
 */
@SinceKotlin("1.2")
@InlineOnly
public @SinceKotlin("1.2") @InlineOnly actual inline fun pow(x: Float): Float =
nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()
absoluteValue extension property for [Int]n */\n// TODO: remove manual 'or' when KT-19290 is
fixed
@SinceKotlin("1.2")
@nonpublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n

/**
 * Returns the absolute value of this value.
 */
@SinceKotlin("1.2")
@SpecialCases
public actual fun Int.abs(n: Int): Int =

/**
 * Returns the absolute value of the given value [n].
 */
@SinceKotlin("1.2")
@SpecialCases
public actual inline val Int.absoluteValue: Int get() = abs(this)

/**
 * Returns the sign of this value:
 *   - `-1` if the value is negative,
 *   - `0` if the value is zero,
 *   - `1` if the value is positive
 */
@SinceKotlin("1.2")
@SpecialCases
public actual val Int.sign: Int get() = when {
    this < 0 -> -1
    this > 0 -> 1
    else -> 0
}

/**
 * Returns the absolute value of this value.
 */
@SinceKotlin("1.2")
@nonpublic actual function

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun min(a: Int, b: Int): Int =

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun max(a: Int, b: Int): Int =

// endregion

/*
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 * Kotlin Programming Language contributors.
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 * can be found in the LICENSE.txt file.
 */

package kotlin

/**
 * Returns `true` if the specified
 * number is a
 * Not-a-Number (NaN) value, `false` otherwise.
 */
public actual fun Double.isNaN(): Boolean =

/**
 * Returns `true` if the specified
 * number is a
 * Not-a-Number (NaN) value, `false` otherwise.
 */
public actual fun Float.isNaN(): Boolean =

/**
 * Returns `true` if this value is infinitely large in magnitude.
 */
public actual fun Double.isInfinite(): Boolean =

/**
 * Returns `true` if this value is infinitely large in magnitude.
 */
public actual fun Float.isInfinite(): Boolean =

/**
 * Returns a number having a single bit set in the position of
 * the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.countOneBits(): Int =

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("DEPRECATION")
@nonpublic actual fun Int.countLeadingZeroBits(): Int =

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("DEPRECATION")
@nonpublic actual fun Int.countTrailingZeroBits(): Int =

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the most significant set bit of this [Int] number,\n or zero, if this number is zero.\n
```kotlin
*\n@SinceKotlin("1.3.\n")@ExperimentalStdlibApi\npublic actual fun Int.takeHighestOneBit(): Int =\n    if (this == 0) 0 else 1 shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n
*\n@SinceKotlin("1.3.\n")@ExperimentalStdlibApi\npublic actual fun Int.takeLowestOneBit(): Int =\n    // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit in this and -this\n
*\n@SinceKotlin("1.3.\n")@ExperimentalStdlibApi\npublic actual fun Int.rotateLeft(bitCount: Int): Int =\n    shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)

*\n@SinceKotlin("1.3.\n")@ExperimentalStdlibApi\npublic actual fun Int.rotateRight(bitCount: Int): Int =\n    shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)

*\n@SinceKotlin("1.3.\n")@ExperimentalStdlibApi\npublic actual fun Long.countOneBits(): Int =\n    high.countOneBits() + low.countOneBits()

*\n@SinceKotlin("1.3.\n")@ExperimentalStdlibApi\npublic actual fun Long.countLeadingZeroBits(): Int =\n    when (val high = this.high) {
        0 -> Int.SIZE_BITS + low.countLeadingZeroBits()\n        else ->
            high.countLeadingZeroBits()\n            high.countLeadingZeroBits()\n    }

*\n@SinceKotlin("1.3.\n")@ExperimentalStdlibApi\npublic actual fun Long.countTrailingZeroBits(): Int =\n    when (val low = this.low) {
        0 -> Int.SIZE_BITS + low.countTrailingZeroBits()\n        else ->
            low.countTrailingZeroBits()\n            low.countTrailingZeroBits()\n    }

*\n@SinceKotlin("1.3.\n")@ExperimentalStdlibApi\npublic actual fun Long.takeHighestOneBit(): Long =\n    when (val low = this.low) {
        0 -> Long(0, high.takeLowestOneBit())\n        else ->
            Long(low.takeLowestOneBit(), 0)\n    }
```

right side reenter the number as the most significant bits on the left side.

Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:

number.rotateLeft(n) == number.rotateRight(-n)

Rotating by a multiple of Long.SIZE_BITS (64) returns the same number, or more generally:

number.rotateRight(n % 64) == number.rotateRight(n)

*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public actual inline fun
Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)

/*
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 * can be found in the license/LICENSE.txt file.
 */

package kotlin

import kotlin.math.pow

internal actual fun defaultPlatformRandom(): Random =
    Random(js("(Math.random() *
            Math.pow(2, 32)) | 0").unsafeCast<Int>())

private val INV_2_26: Double = 2.0.pow(-26)
private val
INV_2_53: Double = 2.0.pow(-53)
internal actual fun doubleFromParts(hi26: Int, low27: Int): Double =
    hi26 *
INV_2_26 + low27 * INV_2_53

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 * license/LICENSE.txt file.
 */

package kotlin.js

import getKClass
import kotlin.reflect.KClass
import
kotlin.reflect.js.internal.KClassImpl

/**
 * Represents the constructor of a class. Instances of `JsClass` can be
 * passed to JavaScript APIs that expect a constructor reference.
 */
external interface JsClass<T : Any> {
    /**
     * Returns the unqualified name of the class represented by this instance.
     */
    val name: String
}

@Deprecated("Use class literal and extension property `js` instead.", replaceWith =
ReplaceWith("T::class.js"), level = DeprecationLevel.ERROR)
external fun <T : Any> jsClass():
    JsClass<T>

@Deprecated("Use class literal and extension property `js` instead.", replaceWith =
ReplaceWith("this::class.js"), level = DeprecationLevel.ERROR)
val <T : Any> T.jsClass: JsClass<T>
    get() = when (jsTypeOf(this)) {
        "string" -> js("String")
        "number" -> js("Number")
        "boolean" -> js("Boolean")
        else -> js("Object").getPrototypeOf(this).constructor
    }

/**
 * Obtains a constructor reference for the given `KClass`. Use of this source code is governed by the Apache 2.0 license that
 * can be found in the license/LICENSE.txt file.
 */

package kotlin.reflect.js.internal

import kotlin.reflect.*

internal abstract class KClassImpl<T : Any>(
    internal open val jClass: JsClass<T>
) :
KClass<T>
override fun equals(other: Any?): Boolean =
    other is KTypeImpl &&
    classifier == other.classifier &&
    arguments == other.arguments &&
    isMarkedNullable == other.isMarkedNullable
override fun hashCode(): Int =
    classifier.hashCode() + 31 + arguments.hashCode() +
    isMarkedNullable.hashCode() +
    override fun toString(): String {
        return classifier.simpleName + arguments.asString() + isMarkedNullable
    }

    private fun KTypeProjection.asString(): String {
        return variance.prefixString() + type.toString()
    }

internal object DynamicKType : KType {

    override val classifier: KClassifier? = null
    override val arguments: List<KTypeProjection> = emptyList()
    override val isMarkedNullable: Boolean = false

    override fun toString(): String = "dynamic"
}

internal fun KVariance.prefixString() =
    when (this) {
        KVariance.INVARIANT -> ""
        KVariance.IN -> "in "
        KVariance.OUT -> "out "
    }

@JsName("PrimitiveClasses")
internal object PrimitiveClasses {

    @JsName("anyClass")
    val anyClass = PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(), "Any", { it is Any })

    @JsName("numberClass")
    val numberClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })

    @JsName("nothingClass")
    val nothingClass = NothingKClassImpl

    @JsName("booleanClass")
    val booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean })

    @JsName("byteClass")
    val byteClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })

    @JsName("shortClass")
    val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(), "Short", { it is Short })

    @JsName("intClass")
    val intClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int", { it is Int })

    @JsName("floatClass")
    val floatClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(), "Float", { it is Float })

    @JsName("doubleClass")
    val doubleClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Double>>(), "Double", { it is Double })

    @JsName("arrayClass")
    val arrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>>(), "Array", { it is Array<> })

    @JsName("stringClass")
    val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(), "String", { it is String })

    @JsName("byteArrayClass")
    val byteArrayClass = PrimitiveKClassImpl(js("Uint8Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray })

    @JsName("shortArrayClass")
    val shortArrayClass =
PrimitiveKClassImpl(js("Int16Array").unsafeCast<JsClass<ShortArray>>(), "ShortArray", { it is ShortArray })
val intArrayClass =
PrimitiveKClassImpl(js("Int32Array").unsafeCast<JsClass<IntArray>>(), "IntArray", { it is IntArray })
val longArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<LongArray>>(), "LongArray", { it is LongArray })
val floatArrayClass =
PrimitiveKClassImpl(js("Float32Array").unsafeCast<JsClass<FloatArray>>(), "FloatArray", { it is FloatArray })
val doubleArrayClass =
PrimitiveKClassImpl(js("Float64Array").unsafeCast<JsClass<DoubleArray>>(), "DoubleArray", { it is DoubleArray })

    @JsName("intArrayClass")
    val intArrayClass =
    PrimitiveKClassImpl(js("Int32Array").unsafeCast<JsClass<IntArray>>(), "IntArray", { it is IntArray })

    @JsName("longArrayClass")
    val longArrayClass =
    PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<LongArray>>(), "LongArray", { it is LongArray })

    @JsName("floatArrayClass")
    val floatArrayClass =
    PrimitiveKClassImpl(js("Float32Array").unsafeCast<JsClass<FloatArray>>(), "FloatArray", { it is FloatArray })

    @JsName("doubleArrayClass")
    val doubleArrayClass =
    PrimitiveKClassImpl(js("Float64Array").unsafeCast<JsClass<DoubleArray>>(), "DoubleArray", { it is DoubleArray })

    @JsName("functionClass")
    fun functionClass(arity: Int): KClassImpl<Any> {
        return functionClasses.get(arity) ?: run {
            val result =
                PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(), "Function$arity",
                { jsTypeOf(it) === "function" && it.asDynamic().length === arity })
            functionClasses.asDynamic()[arity] = result
            result
        }
    }
}

private val functionClasses =
    arrayOfNulls<KClassImpl<Any>>(0)

// a package is omitted to get declarations directly under the module

import kotlin.reflect.*
import kotlin.reflect.js.internal.*

@JsName("getKClass")
internal fun <T : Any> getKClass(jClass: JsClass<T>): KClass<T> =
    getOrCreateKClass(jClass)

@JsName("getKClassFromExpression")
internal fun <T : Any> getKClassFromExpression(e: T): KClass<T> =
    when (jsTypeOf(e)) {
        "string" ->
            PrimitiveClasses.stringClass
        "number" -> if (jsBitwiseOr(e, 0).asDynamic() === e)
            PrimitiveClasses.intClass else PrimitiveClasses.doubleClass
        "boolean" ->
            PrimitiveClasses.booleanClass
        "function" ->
            PrimitiveClasses.functionClass(e.asDynamic().length)
        else -> run {
            when (e)
            is BooleanArray ->
                PrimitiveClasses.booleanArrayClass
            e is CharArray ->
                PrimitiveClasses.charArrayClass
            e is ByteArray ->
                PrimitiveClasses.byteArrayClass
            e is ShortArray ->
                PrimitiveClasses.shortArrayClass
            e is IntArray ->
                PrimitiveClasses.intArrayClass
            e is LongArray ->
                PrimitiveClasses.longArrayClass
            e is DoubleArray ->
                PrimitiveClasses.doubleArrayClass
            e is KClass<*> ->
                PrimitiveClasses.arrayClass
            else -> run {
                val constructor = js("Object").getPrototypeOf(e).constructor
                when (e)
                constructor === js("Object") ->
                    PrimitiveClasses.anyClass
                constructor === js("Error") ->
                    PrimitiveClasses.anyClass
                else -> run {
                    PrimitiveClasses.throwableClass
                }
            }
        }
    }.unsafeCast<KClass<T>>()

private fun <T : Any> getOrCreateKClass(jClass: JsClass<T>): KClass<T> {
    if (jClass === js("String")) return PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()

    val metadata = jClass.asDynamic().`$metadata$`
    return if (metadata != null) {
        if (metadata.`$kClass$` == null) {
            val kClass = SimpleKClassImpl(jClass)
            metadata.`$kClass$` = kClass
            kClass
        } else {
            metadata.`$kClass$`unsafeCast<KClass<T>>()
        }
    } else {
        SimpleKClassImpl(jClass)
    }
}

package kotlin.js

/**
 */
@Suppress("NOT_DOCUMENTED")
public external class RegExp(pattern: String, flags: String? = definedExternally) {
    fun test(str: String): Boolean
    fun exec(str: String): RegExpMatch?
    override fun toString(): String
    val global: Boolean
    val ignoreCase: Boolean
    val multiline: Boolean
}

/**
 * Resets the
regular expression so that subsequent \[RegExp.test\] and \[RegExp.exec\] calls will match starting with the beginning of the input string.

```java
public fun RegExp.reset() {
    lastIndex = 0
}

// TODO: Inherit from array or
introduce asArray() extension

/**
 * Represents the return value of \[RegExp.exec\].
 */
@Suppress("NOT_DOCUMENTED")
public external interface RegExpMatch {
    public val index: Int
    public val input: String
    public val length: Int
}

/**
 * Returns the entire text matched by \[RegExp.exec\] if
 * the \[index\] parameter is 0, or the text matched by the capturing parenthesis
 */

/**
 * Converts the result of \[RegExp.exec\] to an array where the first element contains the entire matched text and each subsequent element is the text matched by each capturing parenthesis.
 */
public inline fun RegExpMatch.asArray(): Array<out String?> = unsafeCast<Array<out String?>>() as Array<out String?>
```

```java
open class ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {
    private var sequenceRef: Sequence<T>? = sequence

    actual override fun iterator(): Iterator<T> {
        val sequence = sequenceRef ?: throw IllegalStateException("This sequence can be consumed only once.")
        sequenceRef = null
        return sequence.iterator()
    }
}
```

```java
public actual class CharacterCodingException(message: String?) : Exception(message) {
    actual constructor() :
        this(null)
}
```

```java
public actual class StringBuilder actual constructor(content: String) : Appendable, CharSequence {
    /**
     * Constructs an empty string builder with
     * In Kotlin/JS implementation of StringBuilder the initial capacity has no
     * effect on the further performance of operations.
     */
    actual constructor(capacity: Int) : this() {
        this.asDynamic()._capacity = capacity
    }

    /** Constructs a string builder that contains the same characters as
     * the specified \[content\] char sequence.
     */
    actual constructor(content: CharSequence) : this(content.toString())

    /** Constructs an empty string builder. */
    actual constructor() : this("")

    private var string: String = if (content !== undefined) content else ""

    actual override val length: Int
        get() = string.asDynamic().length

    actual override fun get(index: Int): Char =
        string.getOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length") }

    actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)

    actual override fun append(value: Char): StringBuilder {
        string += value
        return this
    }

    actual override fun append(value: CharSequence?): StringBuilder {
        string += value.toString()
        return this
    }

    @UseExperimental(ExperimentalStdlibApi::class)
    actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder = this.appendRange(value, startIndex, endIndex)

    /**
     * Reverses the contents of this string builder and returns this instance.
     */
    actual fun reverse(): StringBuilder {
        var reversed = ""
        var index = string.length - 1
        while (index >= 0) {
            val low = string[index--]
            if (low.isLowSurrogate() && index >= 0) {
                val high = string[index--]
                if (high.isHighSurrogate()) {
                    reversed = reversed + high + low
                } else {
                    reversed = reversed + low + high
                }
            } else {
                reversed += low
            }
        }
        string = reversed
        return this
    }

    actual override fun append(value: Char): StringBuilder {
        string += value
        return this
    }
```

```java
open class CharacterCodingException(message: String?) : Exception(message) {
    actual constructor() :
        this(null)
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public actual class StringBuilder actual constructor(content: String) : Appendable, CharSequence {
    /**
     * Constructs an empty string builder with
     * In Kotlin/JS implementation of StringBuilder the initial capacity has no
     * effect on the further performance of operations.
     */
    actual constructor(capacity: Int) : this() {
        this.asDynamic()._capacity = capacity
    }

    /** Constructs a string builder that contains the same characters as
     * the specified \[content\] char sequence.
     */
    actual constructor(content: CharSequence) : this(content.toString())

    /** Constructs an empty string builder. */
    actual constructor() : this("")

    private var string: String = if (content !== undefined) content else ""

    actual override val length: Int
        get() = string.asDynamic().length

    actual override fun get(index: Int): Char =
        string.getOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length") }

    actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)

    actual override fun append(value: Char): StringBuilder {
        string += value
        return this
    }

    actual override fun append(value: CharSequence?): StringBuilder {
        string += value.toString()
        return this
    }

    @UseExperimental(ExperimentalStdlibApi::class)
    actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder = this.appendRange(value, startIndex, endIndex)

    /**
     * Reverses the contents of this string builder and returns this instance.
     */
    actual fun reverse(): StringBuilder {
        var reversed = ""
        var index = string.length - 1
        while (index >= 0) {
            val low = string[index--]
            if (low.isLowSurrogate() && index >= 0) {
                val high = string[index--]
                if (high.isHighSurrogate()) {
                    reversed = reversed + high + low
                } else {
                    reversed = reversed + low + high
                }
            } else {
                reversed += low
            }
        }
        string = reversed
        return this
    }
```

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open class CharacterCodingException(message: String?) : Exception(message) {
    actual constructor() :
        this(null)
}
```

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public actual class CharacterCodingException(message: String?) : Exception(message) {
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```java
public actual class StringBuilder actual constructor(content: String) : Appendable, CharSequence {
    /**
     * Constructs an empty string builder with
     * In Kotlin/JS implementation of StringBuilder the initial capacity has no
     * effect on the further performance of operations.
     */
    actual constructor(capacity: Int) : this() {
        this.asDynamic()._capacity = capacity
    }

    /** constructs a string builder that contains the same characters as
     * the specified \[content\] char sequence.
     */
    actual constructor(content: CharSequence) : this(content.toString())

    /** Constructs an empty string builder. */
    actual constructor() : this("")

    private var string: String = if (content !== undefined) content else ""

    actual override val length: Int
        get() = string.asDynamic().length

    actual override fun get(index: Int): Char =
        string.getOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length") }

    actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)

    actual override fun append(value: Char): StringBuilder {
        string += value
        return this
    }

    actual override fun append(value: CharSequence?): StringBuilder {
        string += value.toString()
        return this
    }

    @UseExperimental(ExperimentalStdlibApi::class)
    actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder = this.appendRange(value, startIndex, endIndex)

    /**
     * Reverses the contents of this string builder and returns this instance.
     */
    actual fun reverse(): StringBuilder {
        var reversed = ""
        var index = string.length - 1
        while (index >= 0) {
            val low = string[index--]
            if (low.isLowSurrogate() && index >= 0) {
                val high = string[index--]
                if (high.isHighSurrogate()) {
                    reversed = reversed + high + low
                } else {
                    reversed = reversed + low + high
                }
            } else {
                reversed += low
            }
```
this string builder and returns this instance.

* The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method, and then that string was appended to this string builder.

* Append the string representation of the specified boolean [value] to this string builder and returns this instance.

* The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method, and then that string was appended to this string builder.

* Append the specified string [value] to this string builder and returns this instance.

* The capacity is the maximum length this string builder can have before an allocation occurs.

* In Kotlin/JS implementation of StringBuilder the value returned from this method may not indicate the actual size of the backing storage.

* If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.

* Otherwise, this method takes no action and simply returns.

* In Kotlin/JS implementation of StringBuilder the size of the backing storage is not extended to comply the given [minimumCapacity], thus calling this method has no effect on the further performance of operations.

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* Otherwise, this method takes no action and simply returns.

* In Kotlin/JS implementation of StringBuilder the size of the backing storage is not extended to comply the given [minimumCapacity], thus calling this method has no effect on the further performance of operations.
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```kotlin
/**
 * Attempts to reduce storage used for this string builder. If the backing storage of this string builder is larger than necessary to hold its current contents, then it may be resized to become more space efficient. Calling this method may, but is not required to, affect the value of the [capacity] property.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
actual fun trimToSize() {
    if (this.asDynamic().capacity !== undefined) {
        this.asDynamic().capacity = length
    }
}

/**
 * Clears the content of this string builder making it empty and returns this instance.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun clear(): StringBuilder {
    string = ""
    return this
}

/**
 * Sets the character at the specified [index] to the specified [value].
 *
 * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public operator fun set(index: Int, value: Char) {
    AbstractList.checkElementIndex(index, length)

    string = string.substring(0, index) + value + string.substring(index + 1)
}

/**
 * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder {
    checkReplaceRange(startIndex, endIndex, length)

    this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)
    return this
}

private fun checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {
    if (startIndex < 0 || startIndex > length) {
        throw IndexOutOfBoundsException("startIndex: $startIndex, length: $length")
    }
    if (startIndex > endIndex) {
        throw IllegalArgumentException("startIndex($startIndex) > endIndex($endIndex)")
    }
}

/**
 * Removes characters in the specified range from this string builder and returns this instance.
 *
 * @param startIndex the beginning (inclusive) of the range to remove.
 * @param endIndex the end (exclusive) of the range to remove.
 *
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun deleteRange(startIndex: Int, endIndex: Int): StringBuilder {
    checkReplaceRange(startIndex, endIndex, length)

    string = string.substring(0, startIndex) + string.substring(endIndex)
    return this
}

/**
 * Copies characters from this string builder into the [destination] character array.
 *
 * @param destination the array to copy to.
 * @param destinationOffset the position in the array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.
 * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.
 *
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {
    // Implementation...
}
```

AbstractList.checkBoundsIndexes(startIndex, endIndex, length)

AbstractList.checkBoundsIndexes(redirectToffset, destinationOffset + endIndex - startIndex, destination.size)

val dstIndex = destinationOffset
for (index in startIndex until endIndex) {
    destination[dstIndex++] = string[index]
}

/**
 * Appends characters in a subarray of the specified character array
 * [value] to this string builder and returns this instance.\n * @param value the array from which characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n * @throws IndexOutOfBoundsException or [IllegalArgumentExcepcion] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n * @param endIndex the end (exclusive) of the subarray to append.\n * @throws IndexOutOfBoundsException or [IllegalArgumentExcepcion] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException or [IllegalArgumentExcepcion] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n * @param endIndex the end (exclusive) of the subarray to append.\n * @throws IndexOutOfBoundsException or [IllegalArgumentExcepcion] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {
    string += value.concatToString(startIndex, endIndex)
    return this
}

/**
 * Appends characters in a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n * @param value the character sequence sequence from which a subsequence is appended. If [value] is `null`, then characters are appended as if [value] contained the four characters \"null\".\n * @param startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n * @throws IndexOutOfBoundsException or [IllegalArgumentExcepcion] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when \`startIndex > endIndex`\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n public fun appendRange(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder {
    val stringCsq = value.toString()
    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)
    string += stringCsq.substring(startIndex, endIndex)
    return this
}

/**
 * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.\n * The inserted characters go in same order as in the [value] array, starting at [index].\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n * @throws IndexOutOfBoundsException or [IllegalArgumentExcepcion] when [startIndex] or [endIndex] is out of range of the [value] array indices or when \`startIndex > endIndex`.\n * @throws IndexOutOfBoundsException or [IllegalArgumentExcepcion] when [startIndex] or [endIndex] is out of range of the [value] array indices or when \`startIndex > endIndex`.\n * @throws IndexOutOfBoundsException or [IllegalArgumentExcepcion] when [startIndex] or [endIndex] is out of range of the [value] array indices or when \`startIndex > endIndex`.\n * @param endIndex the end (exclusive) of the subarray to insert.\n * @param index the position in this string builder to insert at.\n * @param value the character sequence from which a subsequence is inserted. If [value] is `null`, then characters will be inserted as if [value] contained the four characters \"null\".\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n * @throws IndexOutOfBoundsException or [IllegalArgumentExcepcion] when [startIndex] or [endIndex] is out of range of the [value] array indices or when \`startIndex > endIndex`.\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n public fun insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {
    AbstractList.checkPositionIndex(index, this.length)
    string = string.substring(0, index) + value.concatToString(startIndex, endIndex) + string.substring(index)
    return this
}

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n * @param index the position in this string builder to insert at.\n * @param value the character sequence from which a subsequence is inserted. If [value] is `null`, then characters will be inserted as if [value] contained the four characters \"null\".\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n * @throws IndexOutOfBoundsException or [IllegalArgumentExcepcion] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when \`startIndex > endIndex`.\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n public fun insertRange(index: Int, value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder {
    AbstractList.checkPositionIndex(index, length)
    val stringCsq = value.toString()
    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)
    string = string.substring(0, index) + stringCsq.substring(startIndex, endIndex) + string.substring(index)
    return this
}

/**
 * Clears the content of this string builder making it empty and returns this instance.\n * @sample samples.text.Strings.clearStringBuilder\n */
@SinceKotlin("1.3")
@Suppress("EXTENSION_SHADOWED_BY_MEMBER")
public actual inline fun StringBuilder.clear(): StringBuilder = this.clear()

/**
 * Sets the character at the specified [index] to the specified [value].
 * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline operator fun StringBuilder.set(index: Int, value: Char) =
    this.set(index, value)

/**
 * Replaces characters in the specified range of this string builder with characters in
 * the specified range of this string builder. StringBuilder is out of range of this
 * string builder. or \`startIndex > endIndex\`.\n
 * @param startIndex the beginning (inclusive) of the range to replace.
 * @param endIndex the end (exclusive) of the range to replace.
 * @param value the string to replace with.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less
 * than zero, greater than the length of this string builder, or \`startIndex > endIndex\`.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder =
    this.setRange(startIndex, endIndex, value)

/**
 * Removes characters in the specified range from this string builder and returns this instance.
 * If the \`Char\` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n
 * @param startIndex the beginning (inclusive) of the range to remove.
 * @param endIndex the end (exclusive) of the range to remove.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder =
    this.deleteRange(startIndex, endIndex)

/**
 * Copies characters from this string builder into the destination character array.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.
 * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the destination array indices range.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) =
    this.toCharArray(destination, destinationOffset, startIndex, endIndex)

/**
 * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.
 * @param value the array from which characters are appended.
 * @param startIndex the beginning of the subarray to append.
 * @param endIndex the end (exclusive) of the subarray to append
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices range.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =
    this.appendRange(value, startIndex, endIndex)
characters are appended as if [value] contained the four characters `'null'`.

* @param startIndex the beginning (inclusive) of the subsequence to append.
* @param endIndex the end (exclusive) of the subsequence to append.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.

* @param value the array from which characters are inserted.
* @param startIndex the beginning (inclusive) of the subarray to insert.
* @param endIndex the end (exclusive) of the subarray to insert.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.

* @param index the position in this string builder to insert at.
* @param value the character sequence from which a subsequence is inserted.
* @param startIndex the beginning (inclusive) of the subsequence to insert.
* @param endIndex the end (exclusive) of the subsequence to insert.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.

* @param index the position in this string builder to insert at.
* @param value the four characters `"null"`.
* @param startThe inserted characters go in same order as in the [value] array, starting at [index].

* @param index the position in this string builder to insert at.
* @param startIndex the beginning (inclusive) of the subarray to insert.
* @param endIndex the end (exclusive) of the subarray to insert.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.

* @param index the position in this string builder to insert at.
* @param value the four characters `"null"`.
* @param startThe inserted characters go in same order as in the [value] array, starting at [index].

* @param index the position in this string builder to insert at.
* @param value the four characters `"null"`.
* @param startThe inserted characters go in same order as in the [value] array, starting at [index].

* @param index the position in this string builder to insert at.
* @param value the four characters `"null"`.
* @param startThe inserted characters go in same order as in the [value] array, starting at [index].

String.toBoolean(): Boolean = toLowerCase() == "true"

/**
 * Parses the string as a signed [Byte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toByte(): Byte = toByteOrNull() ?: numberFormatException(this)

/**
 * Parses the string as a [Short] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toShort(): Short = toShortOrNull() ?: numberFormatException(this)

/**
 * Parses the string as a [Int] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toInt(): Int = toIntOrNull() ?: numberFormatException(this)

/**
 * Parses the string as a [Long] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatException(this)

/**
 * Parses the string as a [Double] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toDouble(): Double = (+(this.asDynamic())).unsafeCast<Double>().also {
    if (it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank())
        numberFormatException(this)
}

/**
 * Parses the string as a [Float] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toFloat(): Float = toDouble().unsafeCast<Float>()

/**
 * Parses the string as a [Double] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual fun String.toDoubleOrNull(): Double? = (+(this.asDynamic())).unsafeCast<Double>().takeIf {
    !(it.isNaN() && !this.isNaN() || it == 0.0 &&
        this.isBlank())
}

/**
 * Parses the string as a [Float] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
public actual inline fun String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()

/**
 * Returns a string representation of this [Byte] value in the specified [radix].
 */
@SinceKotlin("1.2")
@kotlin.internal.InlineOnly
public actual inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)

/**
 * Returns a string representation of this [Short] value in the specified [radix].
 */
@SinceKotlin("1.2")
@kotlin.internal.InlineOnly
public actual inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)

/**
 * Returns a string representation of this [Int] value in the specified [radix].
 */
public actual fun Int.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))

private fun String.isNaN(): Boolean = when (this.toLowerCase()) {
    "nan", "+nan", "-nan" -> true
    else -> false
}

/**
 * Checks whether the given [radix] is valid radix for string to number conversion.
 */
@PublishedApi
internal actual fun checkRadix(radix: Int): Int {
    if (radix !in 2..36) {
        throw IllegalArgumentException("radix $radix was not in valid range 2..36")
    }
    return radix
}

internal actual fun digitOf(char: Char, radix: Int): Int = when {
    char >= '0' && char <= '9' -> char - '0'
    char >= 'A' && char <= 'Z' -> char - 'A' + 10
    else -> -1
}

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'9' -> char - '0'\n char >= 'A' && char <= 'Z' -> char - 'A' + 10\n char >= 'a' && char <= 'z' -> char - 'a' + 10\n
else -> -1\n}.let { if (it >= radix) -1 else it }\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n * Provides
enumeration values to use to set regular expression options.\n */\npublic actual enum class RegexOption(val value:
String) {\n /** Enables case-insensitive matching. */\n IGNORE_CASE(\"i\"),\n /** Enables multiline
mode.\n *\n * In multiline mode the expressions `^` and `$` match just after or just before,\n * respectively, a
line terminator or the end of the input sequence. */\n MULTILINE(\"m\")\n}\n\n\n/**\n * Represents the results
from a single capturing group within a [MatchResult] of [Regex].\n *\n * @param value The value of captured
group.\n */\npublic actual data class MatchGroup(actual val value: String)\n\n\n/**\n * Represents a compiled
regular expression.\n * Provides functions to match strings in text with a pattern, replace the found occurrences and
split text around matches.\n *\n * For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/enUS/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)\
n * and
[http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).\n
*\n * @constructor Creates a regular expression from the specified [pattern] string and the specified set of
[options].\n */\npublic actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {\n\n /**
Creates a regular expression from the specified [pattern] string and the specified single [option]. */\n public actual
constructor(pattern: String, option: RegexOption) : this(pattern, setOf(option))\n\n /** Creates a regular expression
from the specified [pattern] string and the default options. */\n public actual constructor(pattern: String) :
this(pattern, emptySet())\n\n\n /** The pattern string of this regular expression. */\n public actual val pattern:
String = pattern\n /** The set of options that were used to create this regular expression. */\n public actual val
options: Set<RegexOption> = options.toSet()\n private val nativePattern: RegExp = RegExp(pattern, options.map
{ it.value }.joinToString(separator = \"\") + \"g\")\n\n /** Indicates whether the regular expression matches the
entire [input]. */\n public actual infix fun matches(input: CharSequence): Boolean {\n
nativePattern.reset()\n
val match = nativePattern.exec(input.toString())\n
return match != null && match.index == 0 &&
nativePattern.lastIndex == input.length\n }\n\n /** Indicates whether the regular expression can find at least one
match in the specified [input]. */\n public actual fun containsMatchIn(input: CharSequence): Boolean {\n
nativePattern.reset()\n
return nativePattern.test(input.toString())\n }\n\n /** Returns the first match of a
regular expression in the [input], beginning at the specified [startIndex].\n *\n * @param startIndex An index to
start search with, by default 0. Must be not less than zero and not greater than `input.length()`\n * @return An
instance of [MatchResult] if match was found or `null` otherwise.\n */\n
@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n public actual fun find(input:
CharSequence, startIndex: Int = 0): MatchResult? = nativePattern.findNext(input.toString(), startIndex)\n\n /**\n
* Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified
[startIndex].\n *\n * @sample samples.text.Regexps.findAll\n */\n
@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n public actual fun findAll(input:
CharSequence, startIndex: Int = 0): Sequence<MatchResult> =\n
generateSequence({ find(input, startIndex) },
{ match -> match.next() })\n\n /**\n * Attempts to match the entire [input] CharSequence against the pattern.\n
*\n * @return An instance of [MatchResult] if the entire input matches or `null` otherwise.\n */\n public
actual fun matchEntire(input: CharSequence): MatchResult? {\n
if (pattern.startsWith('^') &&
pattern.endsWith('$'))\n
return find(input)\n
else\n
return
Regex(\"^${pattern.trimStart('^').trimEnd('$')}$\", options).find(input)\n }\n\n /**\n * Replaces all
occurrences of this regular expression in the specified [input] string with specified [replacement] expression.\n *\n
* @param replacement A replacement expression that can include substitutions. See
[String.prototype.replace](https://developer.mozilla.org/enUS/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\n */\n public
actual fun replace(input: CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern,

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/**
 * Replaces all occurrences of this regular expression in the specified [input] string with
 * the given function [transform] that takes [MatchResult] and returns a string to be used as a
 * replacement for that match.
 */
public actual inline fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {

    var match = find(input)
    if (match == null) return input.toString()

    var lastStart = 0
    val length = input.length
    val sb = StringBuilder(length)

    do {
        val foundMatch = match!!
        sb.append(input, lastStart, foundMatch.range.start)
        sb.append(transform(foundMatch))
        lastStart = foundMatch.range.endInclusive + 1
        match = foundMatch.next()
    } while (lastStart < length && match != null)

    if (lastStart < length) {
        sb.append(input, lastStart, length)
    }

    return sb.toString()
}

/**
 * Replaces the first occurrence of this regular expression in the specified [input] string with specified [replacement] expression.
 */
public actual fun replaceFirst(input: CharSequence, replacement: String): String {

    val nonGlobalOptions = options.map { it.value }.joinToString(separator = "")
    return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement)
}

/**
 * Splits the [input] CharSequence around matches of this regular expression.
 *
 * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun split(input: CharSequence, limit: Int = 0): List<String> {

    require(limit >= 0) { "Limit must be non-negative, but was $limit" }

    val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }

    val result =mutableListOf<String>()
    var lastStart = 0

    for (match in matches) {
        result.add(input.subSequence(lastStart, match.range.start).toString())
        lastStart = match.range.endInclusive + 1
    }

    result.add(input.subSequence(lastStart, input.length).toString())
    return result
}

/**
 * Returns the string representation of this regular expression, namely the [pattern] of this regular
 * expression.
 */
public override fun toString(): String = nativePattern.toString()

actual companion object {

    public actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))

    public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, "\\$&")

    public actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, "$$$$")

    private val patternEscape = RegExp("""[\-\\^$*+?.()|\[\]{}\]\""", "g")
    private val replacementEscape = RegExp("""\$""", "g")
}

// Creates a regular expression from the specified [pattern] string and the specified single [option].
@jsname("Regex_sb3q2\$")
public fun Regex_0(pattern: String, option: RegexOption): Regex = Regex(pattern, setOf(option))

// Creates a regular expression from the specified [pattern] string and the default options.
@jsname("Regex_61zpoe\$")
public fun Regex_1(pattern: String): Regex = Regex(pattern, emptySet())

private fun RegExp.findNext(input: String, from: Int): MatchResult? {

    this.lastIndex = from
    val match = exec(input)
    if (match == null) return null
    val range = match.index..lastIndex - 1

    return object : MatchResult {
        override val range: IntRange = range
        override val value: String
            get() = match[0]!!

        override val groups: MatchGroupCollection = object :


override fun get(index: Int): MatchResult? = 
this@findNext.findNext(input, if (range.isEmpty()) range.start + 1 else range.endInclusive + 1)

override fun get(index: Int): MatchGroup? = 
match[index]?.let { MatchGroup(it) }

override fun iterator(): Iterator<MatchGroup?> = 
indices.asSequence().map { this[it] }.iterator()

override fun get(index: Int): MatchGroupCollection.MatchGroup? = 
match[index] as MatchGroup

override fun iterator(): Iterator<MatchGroup?> = 
indices.asSequence().map { this[it] }.iterator()

override fun get(index: Int): MatchGroup? = 
match[index] as MatchGroup

override fun iterator(): Iterator<MatchGroup?> = 
indices.asSequence().map { this[it] }.iterator()

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match[index] as MatchGroup

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indices.asSequence().map { this[it] }.iterator()

override fun get(index: Int): MatchGroup? = 
match[index] as MatchGroup

override fun iterator(): Iterator<MatchGroup?> = 
indices.asSequence().map { this[it] }.iterator()
```kotlin
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
    nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "gi" else "g"),
    Regex.escapeReplacement(newValue))

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =
    nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) "gi" else "g"),
    newChar.toString())

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
    nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "i" else ""),
    Regex.escapeReplacement(newValue))

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =
    nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) "i" else ""),
    newChar.toString())
```

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.*/

package kotlin.text

/** Returns the negative [size] if [throwOnMalformed] is false, throws [CharacterCodingException] otherwise. */
@UseExperimental(ExperimentalStdlibApi::class)
private fun malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int {
    if (throwOnMalformed) throw CharacterCodingException("Malformed sequence starting at ${index - 1}\")
    return -size
}

/**
 * Returns code point corresponding to UTF-16 surrogate pair, \n * where the first of the pair is the [high] and the second is in the [string] at the [index].\n * Returns zero if the pair is malformed and [throwOnMalformed] is false.\n */
private fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (high !in 0xD800..0xDBFF || index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val low = string[index].toInt()
    if (low !in 0xDC00..0xDFFF) {
        return malformed(0, index, throwOnMalformed)
    }
    return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)
}

/**
 * Returns code point corresponding to UTF-8 sequence of two bytes,\n * where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the [index].\n * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\n */
private fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (byte1 and 0x1E == 0 || index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte2 and 0xC0 != 0x80) {
        return malformed(0, index, throwOnMalformed)
    }
    return (byte1 shl 6) xor byte2 xor 0xF80
}

/**
 * Returns code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\n */
private fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0) {
        if (byte2 and 0xE0 != 0xA0) {
            // Non-shortest form
            return malformed(0, index, throwOnMalformed)
        } else if (byte1 and 0x1F == 0xD) {
            if (byte2 and 0xEF == 0x80) {
                // Surrogates code point
                return malformed(0, index, throwOnMalformed)
            } else if (byte1 and 0xEF == 0xA0) {
                // Surrogates code point
                return malformed(0, index, throwOnMalformed)
            }
        } else if (byte1 and 0x1F == 0xDF) {
            if (byte2 and 0xBF == 0x80) {
                // Surrogates code point
                return malformed(0, index, throwOnMalformed)
            } else if (byte2 and 0xBF == 0xA0) {
                // Non-shortest form
                return malformed(0, index, throwOnMalformed)
            }
        }
    } else if (byte1 and 0xF == 0xD) {
        if (byte2 and 0xEF == 0x80) {
            return malformed(0, index, throwOnMalformed)
        } else if (byte2 and 0xBF == 0xA0) {
            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0x1F == 0xDF) {
        if (byte2 and 0xBF == 0x80) {
            return malformed(0, index, throwOnMalformed)
        } else if (byte2 and 0xBF == 0xA0) {
            return malformed(0, index, throwOnMalformed)
        }
    }
    val byte3 = bytes[index + 1].toInt()
    if (byte3 and 0xC0 != 0x80) {
        return malformed(1, index, throwOnMalformed)
    }
    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -0x1E080
}
```
positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is
malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the sequence of four
bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom4(bytes: ByteArray, byte1:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n if (index >= endIndex) {\n
malformed(0,
index, throwOnMalformed)\n }\n\n val byte2 = bytes[index].toInt()\n if (byte1 and 0xF == 0x0) {\n
if
(byte2 and 0xF0 <= 0x80) {\n
// Non-shortest form\n
return malformed(0, index,
throwOnMalformed)\n
}\n } else if (byte1 and 0xF == 0x4) {\n
if (byte2 and 0xF0 != 0x80) {\n
//
Out of Unicode code points domain (larger than U+10FFFF)\n
return malformed(0, index,
throwOnMalformed)\n
}\n } else if (byte1 and 0xF > 0x4) {\n
return malformed(0, index,
throwOnMalformed)\n } else if (byte2 and 0xC0 != 0x80) {\n
return malformed(0, index,
throwOnMalformed)\n }\n\n if (index + 1 == endIndex) {\n
return malformed(1, index,
throwOnMalformed)\n }\n val byte3 = bytes[index + 1].toInt()\n if (byte3 and 0xC0 != 0x80) {\n
return
malformed(1, index, throwOnMalformed)\n }\n\n if (index + 2 == endIndex) {\n
return malformed(2, index,
throwOnMalformed)\n }\n val byte4 = bytes[index + 2].toInt()\n if (byte4 and 0xC0 != 0x80) {\n
return
malformed(2, index, throwOnMalformed)\n }\n return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor
byte4 xor 0x381F80\n}\n\n/**\n * Maximum number of bytes needed to encode a single char.\n *\n * Code points in
`0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded in two bytes.\n * Code points
in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate code points in
`0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in
`0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate
const val MAX_BYTES_PER_CHAR = 3\n\n/**\n * The byte sequence a malformed UTF-16 char sequence is
replaced by.\n */\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())\n\n/**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n
*\n * @param string the string to encode.\n * @param startIndex the start offset (inclusive) of the substring to
encode.\n * @param endIndex the end offset (exclusive) of the substring to encode.\n * @param
throwOnMalformed whether to throw on malformed char sequence or replace by the
[REPLACEMENT_BYTE_SEQUENCE].\n *\n * @throws CharacterCodingException if the char sequence is
malformed and [throwOnMalformed] is true.\n */\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex:
Int, throwOnMalformed: Boolean): ByteArray {\n require(startIndex >= 0 && endIndex <= string.length &&
startIndex <= endIndex)\n\n val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\n var
byteIndex = 0\n var charIndex = startIndex\n\n while (charIndex < endIndex) {\n
val code =
string[charIndex++].toInt()\n
when {\n
code < 0x80 ->\n
bytes[byteIndex++] = code.toByte()\n
code < 0x800 -> {\n
bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\n
bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n
}\n
code < 0xD800 || code >= 0xE000 ->
{\n
bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n
bytes[byteIndex++] = (((code shr 6)
and 0x3F) or 0x80).toByte()\n
bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n
}\n
else -> { // Surrogate char value\n
val codePoint = codePointFromSurrogate(string, code, charIndex,
endIndex, throwOnMalformed)\n
if (codePoint <= 0) {\n
bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[0]\n
bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[1]\n
bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\n
} else {\n
bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n
bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n
bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n
bytes[byteIndex++] =
((codePoint and 0x3F) or 0x80).toByte()\n
charIndex++\n
}\n
}\n
}\n }\n\n
return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/**\n * The character a malformed
UTF-8 byte sequence is replaced by.\n */\nprivate const val REPLACEMENT_CHAR = '\\uFFFD'\n\n/**\n *
Decodes the UTF-8 [bytes] array and returns the resulting [String].\n *\n * @param bytes the byte array to decode.\n
* @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param endIndex the end offset

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(exclusive) of the array to be encoded.

* @param throwOnMalformed whether to throw on malformed byte sequence or replace by the [REPLACEMENT_CHAR].
* @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.
* @internal

```kotlin
internal fun decodeUtf8(bytes: ByteArray,
startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {
    require(startIndex >= 0 && endIndex <=
bytes.size && startIndex <= endIndex)

    var byteIndex = startIndex
    val stringBuilder = StringBuilder()

    while (byteIndex < endIndex) {
        val byte = bytes[byteIndex++].toInt()
        when {
            byte >= 0 ->
                stringBuilder.append(byte.toChar())
            byte shr 5 == -2 -> {
                val code =
codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)
                if (code <= 0) {
                    stringBuilder.append(REPLACEMENT_CHAR)
                    byteIndex += -code
                } else {
                    stringBuilder.append(code.toChar())
                    byteIndex += 1
                }
            }
            byte shr 4 == -2 ->
            byte shr 3 == -2 -> {
                val code =
codePointFrom4(bytes, byte, byteIndex, endIndex,
throwOnMalformed)
                if (code <= 0) {
                    stringBuilder.append(REPLACEMENT_CHAR)
                    byteIndex += -code
                } else {
                    val high = (code - 0x10000) shr 10 or 0xD800
                    val low = (code and 0x3FF) or 0xDC00
                    stringBuilder.append(high.toChar())
                    stringBuilder.append(low.toChar())
                    byteIndex += 3
                }
            }
            else -> {
                malformed(0, byteIndex, throwOnMalformed)
                stringBuilder.append(REPLACEMENT_CHAR)
                byteIndex += -code
            }
        }
    }

    return stringBuilder.toString()
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalTime
public actual enum class DurationUnit(internal val
scale: Double) {
    /**
     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.
     */
    NANOSECONDS(1e0),
    /**
     * Time unit representing one microsecond, which is 1/1000 of a millisecond.
     */
    MICROSECONDS(1e3),
    /**
     * Time unit representing one millisecond, which is 1/1000 of a second.
     */
    MILLISECONDS(1e6),
    /**
     * Time unit representing one second.
     */
    SECONDS(1e9),
    /**
     * Time unit representing one minute.
     */
    MINUTES(60e9),
    /**
     * Time unit representing one hour.
     */
    HOURS(3600e9),
    /**
     * Time unit representing one day, which is always equal to 24 hours.
     */
    DAYS(86400e9),
    /**
     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.
     */
    NANOSECONDS1(1e0),
    /**
     * Time unit representing one microsecond, which is 1/1000 of a millisecond.
     */
    MICROSECONDS1(1e3),
    /**
     * Time unit representing one millisecond, which is 1/1000 of a second.
     */
    MILLISECONDS1(1e6),
    /**
     * Time unit representing one second, which is always equal to 24 hours.
     */
    SECONDS1(1e9),
    /**
     * Time unit representing one minute, which is always equal to 60 seconds.
     */
    MINUTES1(60e9),
    /**
     * Time unit representing one hour, which is always equal to 3600 seconds.
     */
    HOURS1(3600e9),
    /**
     * Time unit representing one day, which is always equal to 86400 seconds.
     */
    DAYS1(86400e9)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalTime
internal actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {
    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)
    return when {
        sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)
        sourceCompareTarget < 0 -> value /
        (targetUnit.scale / sourceUnit.scale)
        else -> value
    }
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalTime
internal actual object
MonotonicTimeSource : TimeSource {

    private val actualSource: TimeSource = run {
        val isNode:
Boolean = js("typeof process !== 'undefined' && process.versions && !!process.versions.node")

        if
(isNode)
            HrTimeSource(js("process").unsafeCast<Process>())
        else
            js("self").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource)
                ?: DateNowTimeSource

    }

    override fun markNow(): TimeMark = actualSource.markNow()
    override fun elapsedNow(): Duration =
    actualSource.elapsedNow()

    override fun startMark(): TimeMark =
    actualSource.startMark()

    override fun stopMark(): TimeMark =
    actualSource.stopMark()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

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    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()

    override fun stopAt(): TimeMark =
    actualSource.stopAt()

    override fun startAt(): TimeMark =
    actualSource.startAt()
public external abstract class WebGLObject

/**
 * Exposes the JavaScript [WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin
 */
public external abstract class WebGLBuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin
 */
public external abstract class WebGLFramebuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin
 */
public external abstract class WebGLProgram : WebGLObject

/**
 * Exposes the JavaScript [WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin
 */
public external abstract class WebGLRenderbuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin
 */
public external abstract class WebGLShader : WebGLObject

/**
 * Exposes the JavaScript [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin
 */
public external abstract class WebGLTexture : WebGLObject

/**
 * Exposes the JavaScript [WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin
 */
public external abstract class WebGLUniformLocation

/**
 * Exposes the JavaScript [WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin
 */
public external abstract class WebGLActiveInfo {
    open val size: Int
    open val type: Int
    open val name: String
}

/**
 * Exposes the JavaScript [WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to Kotlin
 */
public external abstract class WebGLShaderPrecisionFormat {
    open val rangeMin: Int
    open val rangeMax: Int
    open val precision: Int
}

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface WebGLRenderingContextBase {
    val canvas: HTMLCanvasElement
    val drawingBufferWidth: Int
    val drawingBufferHeight: Int
    fun getContextAttributes(): WebGLContextAttributes?
    fun isContextLost(): Boolean
    fun getSupportedExtensions(): Array<String>?
    fun getExtension(name: String): dynamic
    fun activeTexture(texture: Int)
    fun attachShader(program: WebGLProgram?, shader: WebGLShader?)
    fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String)
    fun bindBuffer(target: Int, buffer: WebGLBuffer?)
    fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)
    fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)
    fun bindTexture(target: Int, texture: WebGLTexture?)
    fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)
    fun blendEquation(mode: Int)
    fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)
    fun blendFunc(sfactor: Int, dfactor: Int)
    fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha: Int)
    fun bufferData(target: Int, size: Int, usage: Int)
    fun bufferData(target: Int, data: BufferDataSource?, usage: Int)
    fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)
    fun checkFramebufferStatus(target: Int)
    fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)
    fun clearDepth(depth: Float)
    fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)
    fun clearDepth(depth: Float)
    fun clearStencil(s: Int)
    fun createContextContextType(canvas: HTMLCanvasElement?, val drawingBufferWidth: Int, val drawingBufferHeight: Int, fun getExtension(name: String): dynamic)
    fun deleteBuffer(buffer: WebGLBuffer?)
    fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)
    fun deleteProgram(program: WebGLProgram?)
    fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)
    fun deleteTexture(texture: WebGLTexture?)
}
fun depthFunc(func: Int)
fun depthMask(flag: Boolean)
fun depthRange(zNear: Float, zFar: Float)
fun detachShader(program: WebGLProgram?)
fun disable(cap: Int)
fun disableVertexAttribArray(index: Int)
fun drawArrays(mode: Int, first: Int, count: Int)
fun drawElements(mode: Int, count: Int, type: Int, offset: Int)
fun enable(cap: Int)
fun enableVertexAttribArray(index: Int)
fun finish()
fun flush()
fun framebufferRenderbuffer(target: Int, attachment: Int, renderbufferTarget: Int, renderbuffer: WebGLRenderbuffer?)
fun generateMipmap(target: Int)
fun getActiveAttrib(program: WebGLProgram?, index: Int)
fun getActiveUniform(program: WebGLProgram?, index: Int)
fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>
fun getAttribLocation(program: WebGLProgram?, name: String): Int
fun getBufferParameter(target: Int, pname: Int): Any
fun getBufferParameter(target: Int, pname: Int): Any
fun getError(): Int
fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any
fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any
fun getProgramParameter(program: WebGLProgram?, pname: Int): Any
fun getShaderPrecisionFormat(target: Int, precisionType: Int): WebGLShaderPrecisionFormat
fun getShaderSource(shader: WebGLShader?): String
fun getTexParameter(target: Int, pname: Int): Any
fun getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation
fun getVertexAttrib(index: Int, pname: Int): Any
fun getVertexAttribOffset(index: Int, pname: Int): Int
fun hint(target: Int, mode: Int)
fun isEnabled(cap: Int): Boolean
fun isFramebuffer(framebuffer: WebGLFramebuffer?): Boolean
fun isProgram(program: WebGLProgram?): Boolean
fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean
fun isShader(shader: WebGLShader?): Boolean
fun isTexture(texture: WebGLTexture?): Boolean
fun lineWidth(width: Float)
fun linkProgram(program: WebGLProgram?)
fun pixelStorei(pname: Int, param: Int)
fun polygonOffset(factor: Float, units: Float)
fun renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)
fun sampleCoverage(value: Float, invert: Boolean)
fun scissor(x: Int, y: Int, width: Int, height: Int)
fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, pixels: ArrayBufferView?)
fun texParameterf(target: Int, pname: Int, param: Float)
fun texParameteri(target: Int, pname: Int, param: Int)
fun texParameterf(target: Int, pname: Int, param: Float)
fun texParameteri(target: Int, pname: Int, param: Int)
fun texParameterf(target: Int, pname: Int, param: Float)
fun texParameteri(target: Int, pname: Int, param: Int)
fun texImage2D(target: Int, level: Int, format: Int, type: Int, pixels: ArrayBufferView?)
fun texParameterf(target: Int, pname: Int, param: Float)
fun texParameteri(target: Int, pname: Int, param: Int)
fun texImage2D(target: Int, level: Int, format: Int, type: Int, pixels: ArrayBufferView?)
fun texParameterf(target: Int, pname: Int, param: Float)
fun texParameteri(target: Int, pname: Int, param: Int)
fun texImage2D(target: Int, level: Int, format: Int, type: Int, pixels: ArrayBufferView?)
fun texParameterf(target: Int, pname: Int, param: Float)
fun texParameteri(target: Int, pname: Int, param: Int)
fun texImage2D(target: Int, level: Int, format: Int, type: Int, pixels: ArrayBufferView?)
fun texParameterf(target: Int, pname: Int, param: Float)
fun texParameteri(target: Int, pname: Int, param: Int)
fun texImage2D(target: Int, level: Int, format: Int, type: Int, pixels: ArrayBufferView?)
fun texParameterf(target: Int, pname: Int, param: Float)
fun texParameteri(target: Int, pname: Int, param: Int)
```kotlin
fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array)
fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float)
fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)
fun uniform4iv(location: WebGLUniformLocation?, v: Int32Array)
fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)
fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)
fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)
fun useProgram(program: WebGLProgram?)
fun validateProgram(program: WebGLProgram?)
fun vertexAttrib1f(index: Int, x: Float)
fun vertexAttrib1fv(index: Int, values: dynamic)
fun vertexAttrib2f(index: Int, x: Float, y: Float)
fun vertexAttrib2fv(index: Int, values: dynamic)
fun vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)
fun vertexAttrib3fv(index: Int, values: dynamic)
fun vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)
fun vertexAttrib4fv(index: Int, values: dynamic)
fun viewport(x: Int, y: Int, width: Int, height: Int)
```

Companion object:

```
val DEPTH_BUFFER_BIT: Int
val STENCIL_BUFFER_BIT: Int
val COLOR_BUFFER_BIT: Int
val POINTS: Int
val LINES: Int
val LINE_LOOP: Int
val LINE_STRIP: Int
val TRANGLES: Int
val TRIANGLE_STRIP: Int
val TRIANGLE_FAN: Int
val ZERO: Int
val ONE: Int
val SRC_COLOR: Int
val oneMinusSRC_COLOR: Int
val SRC_ALPHA: Int
val oneMinusSRC_ALPHA: Int
val DST_COLOR: Int
val oneMinusDST_COLOR: Int
val DST_ALPHA: Int
val oneMinusDST_ALPHA: Int
val BLEND_EQUATION: Int
val BLEND_EQUATION_RGB: Int
val BLEND_EQUATION_ALPHA: Int
val FUNC_ADD: Int
val BLEND_DST_RGB: Int
val BLEND_SRC_RGB: Int
val BLEND_DST_ALPHA: Int
val BLEND_SRC_ALPHA: Int
val CONSTANT_COLOR: Int
val oneMinusCONSTANT_COLOR: Int
val CONSTANT_ALPHA: Int
val oneMinusCONSTANT_ALPHA: Int
val BLEND_COLOR: Int
val BLEND_COLOR_BUFFER_BIT: Int
val BUFFER_SIZE: Int
val BUFFER_USAGE: Int
val CURRENT_VERTEX_ATTRIB: Int
val FRONT: Int
val BACK: Int
val FRONT_AND_BACK: Int
val CULL_FACE: Int
val CULL_FACE_MODE: Int
val DEPTH_TEST: Int
val DEPTH_CLEAR_VALUE: Int
val DEPTH_FUNC: Int
val SAMPLE_ALPHA_TO_COVERAGE: Int
val SAMPLE_COVERAGE: Int
val NO_ERROR: Int
val INVALID_ENUM: Int
val INVALID_VALUE: Int
val INVALID_OPERATION: Int
val OUT_OF_MEMORY: Int
val CW: Int
val CCW: Int
val LINE_WIDTH: Int
val ALIASED_LINE_WIDTH_RANGE: Int
val CULL_FACE_MODE: Int
val FRONT_FACE: Int
val DEPTH_RANGE: Int
val DEPTH_WRITEMASK: Int
val DEPTH_CLEAR_VALUE: Int
val DEPTH_FUNC: Int
val STENCIL_CLEAR_VALUE: Int
val STENCIL_FUNC: Int
val STENCIL_FAIL: Int
val STENCIL_PASS_DEPTH_FAIL: Int
val STENCIL_PASS_DEPTH_PASS: Int
val STENCIL_REF: Int
val STENCIL_VALUE_MASK: Int
val STENCIL_REF: Int
val STENCIL_BACK_FUNC: Int
val STENCIL_BACK_FAIL: Int
val STENCIL_BACK_PASS_DEPTH_FAIL: Int
val STENCIL_BACK_PASS_DEPTH_PASS: Int
```
val SAMPLER_2D: Int
val SAMPLER_CUBE: Int
val VERTEX_ATTRIB_ARRAY_ENABLED: Int
val VERTEX_ATTRIB_ARRAY_SIZE: Int
val VERTEX_ATTRIB_ARRAY_STRIDE: Int
val VERTEX_ATTRIB_ARRAY_TYPE: Int
val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int
val VERTEX_ATTRIB_ARRAY_POINTER: Int
val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int
val IMPLEMENTATION_COLOR_READ_FORMAT: Int
val IMPLEMENTATION_COLOR_READ_TYPE: Int
val LOW_FLOAT: Int
val MEDIUM_FLOAT: Int
val HIGH_FLOAT: Int
val LOW_INT: Int
val MEDIUM_INT: Int
val HIGH_INT: Int
val FRAMEBUFFER: Int
val RENDERBUFFER: Int
val RGBA4: Int
val RGB5_A1: Int
val RGB565: Int
val DEPTH_COMPONENT16: Int
val STENCIL_INDEX: Int
val DEPTH_STENCIL: Int
val RENDERBUFFER_WIDTH: Int
val RENDERBUFFER_HEIGHT: Int
val RENDERBUFFER_INTERNAL_FORMAT: Int
val RENDERBUFFER_RED_SIZE: Int
val RENDERBUFFER_GREEN_SIZE: Int
val RENDERBUFFER_BLUE_SIZE: Int
val RENDERBUFFER_ALPHA_SIZE: Int
val RENDERBUFFER_DEPTH_SIZE: Int
val RENDERBUFFER_STENCIL_SIZE: Int
val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int
val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int
val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int
val DEPTH_ATTACHMENT: Int
val STENCIL_ATTACHMENT: Int
val DEPTH_STENCIL_ATTACHMENT: Int
val FRAMEBUFFER_COMPLETE: Int
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int
val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int
val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int
val FRAMEBUFFER_UNSUPPORTED: Int
val FRAMEBUFFER_BINDING: Int
val RENDERBUFFER_BINDING: Int
val MAX_RENDERBUFFER_SIZE: Int
val INVALID_FRAMEBUFFER_OPERATION: Int
val UNPACK_FLIP_Y_WEBGL: Int
val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int
val CONTEXT_LOST_WEBGL: Int
val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int
val BROWSER_DEFAULT_WEBGL: Int

/**
 * Exposes the JavaScript
 * [WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin
 * companion object { val DEPTH_BUFFER_BIT: Int
val STENCIL_BUFFER_BIT: Int
val COLOR_BUFFER_BIT: Int
val POINTS: Int
val LINES: Int
val LINE_LOOP: Int
val LINE_STRIP: Int
val TRIANGLES: Int
val TRIANGLE_STRIP: Int
val TRIANGLE_FAN: Int
val ZERO: Int
val ONE: Int
val SRC_COLOR: Int
val ONE_MINUS_SRC_COLOR: Int
val SRC_ALPHA: Int
val ONE_MINUS_SRC_ALPHA: Int
val DST_ALPHA: Int
val ONE_MINUS_DST_ALPHA: Int
val SRC_ALPHA_SATURATE: Int
val BLEND_EQUATION: Int
val BLEND_EQUATION_RGB: Int
val BLEND_EQUATION_ALPHA: Int
val BLEND_COLOR: Int
val BLEND_DST_RGB: Int
val BLEND_DST_ALPHA: Int
val BLEND_SRC_RGB: Int
val BLEND_SRC_ALPHA: Int
val BLEND_COLOR: Int
val BLEND_DST_RGB: Int
val BLEND_DST_ALPHA: Int
val BLEND_SRC_RGB: Int
val BLEND_SRC_ALPHA: Int
val CONSTANT_COLOR: Int
val ONE_MINUS_CONSTANT_COLOR: Int
val CONSTANT_ALPHA: Int
val ONE_MINUS_CONSTANT_ALPHA: Int
val BLEND_COLOR: Int
val BLEND_DST_RGB: Int

public external class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event

val statusMessage: String? = "",
val bubbles: Boolean? = false,
val cancelable: Boolean? = false,
val composed: Boolean? = false,
val bubbles?: Boolean? = false,
val statusMessage?: String? = "",


public external class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event

val statusMessage: String? = "",
val bubbles: Boolean? = false,
val cancelable: Boolean? = false,
val composed: Boolean? = false,
val bubbles?: Boolean? = false,
val statusMessage?: String? = "",


public external class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event

val statusMessage: String? = "",
val bubbles: Boolean? = false,
val cancelable: Boolean? = false,
val composed: Boolean? = false,
val bubbles?: Boolean? = false,
val statusMessage?: String? = "",


public external class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event

val statusMessage: String? = "",
val bubbles: Boolean? = false,
val cancelable: Boolean? = false,
val composed: Boolean? = false,
val bubbles?: Boolean? = false,
return o
}

/**
 * Exposes the JavaScript
 */

ArrayBuffer[https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer] to Kotlin

ArrayBuffer(length: Int) : BufferDataSource

ArrayBuffer[https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer] to Kotlin

ArrayBufferView : BufferDataSource

ArrayBufferView[https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView] to Kotlin

ArrayBufferView

ArrayBufferView

ArrayBufferView

ArrayBufferView

ArrayBufferView

ArrayBufferView

ArrayBufferView

ArrayBufferView

ArrayBufferView
public abstract class StyleSheet {
    open val type: String
    open val href: String?
    open val parentStyleSheet: StyleSheet?
    open val title: String?
    open val media: MediaList
    open var disabled: Boolean
}

abstract class CSSStyleSheet : StyleSheet {
    open val ownerRule: CSSRule?
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)
}

abstract class StyleSheetList : ItemArrayLike<StyleSheet> {
    override fun item(index: Int): StyleSheet?
}

@kotlin.internal.InlineOnly
inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]

interface LinkStyle {
    val sheet: StyleSheet?
        get() = definedExternally
}

abstract class CSSRuleList : ItemArrayLike<CSSRule> {
    override fun item(index: Int): CSSRule?
}

@kotlin.internal.InlineOnly
inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]

abstract class CSSRule {
    open val type: Short
    open var cssText: String
    open val parentRule: CSSRule?
    open val parentStyleSheet: CSSStyleSheet?
}

object {
    val STYLE_RULE: Short
    val CHARSET_RULE: Short
    val IMPORT_RULE: Short
    val MEDIA_RULE: Short
    val FONT_FACE_RULE: Short
    val PAGE_RULE: Short
    val MARGIN_RULE: Short
    val NAMESPACE_RULE: Short
}

abstract class CSSStyleRule : CSSRule {
    open var selectorText: String
    open val style: CSSStyleDeclaration
}

abstract class CSSImportRule : CSSRule {
    open val href: String
    open val media: MediaList
    open val styleSheet: CSSStyleSheet
}

abstract class CSSGroupingRule : CSSRule {
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)
}

abstract class CSSMediaRule : CSSGroupingRule {
}

abstract class CSSPageRule : CSSGroupingRule {
    open var selectorText: String
    open val style: CSSStyleDeclaration
}

abstract class CSSImportRule : CSSRule {
    open val href: String
    open val media: MediaList
    open val styleSheet: CSSStyleSheet
}

abstract class CSSGroupingRule : CSSRule {
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)
}

abstract class CSSMediaRule : CSSGroupingRule {
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)
}

abstract class CSSPageRule : CSSGroupingRule {
    open var selectorText: String
    open val style: CSSStyleDeclaration
}

abstract class CSSImportRule : CSSRule {
    open val href: String
    open val media: MediaList
    open val styleSheet: CSSStyleSheet
}

abstract class CSSGroupingRule : CSSRule {
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)
}

abstract class CSSMediaRule : CSSGroupingRule {
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)
}

abstract class CSSPageRule : CSSGroupingRule {
    open var selectorText: String
    open val style: CSSStyleDeclaration
}
val PAGE_RULE: Short
val MARGIN_RULE: Short
val NAMESPACE_RULE: Short

public external abstract class CSSMarginRule : CSSRule {
    open val name: String
    open val style: CSSStyleDeclaration

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 * [CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin
 */
public external abstract class CSSNamespaceRule : CSSRule {
    open val namespaceURI: String
    open val prefix: String

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 * [CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin
 */
public external abstract class CSSStyleDeclaration : ItemArrayLike<String> {
    open var cssText: String
    open var parentRule: CSSRule?
    open var cssFloat: String
    open var alignContent: String
    open var alignItems: String
    open var alignSelf: String
    open var animation: String
    open var animationDelay: String
    open var animationDirection: String
    open var animationDuration: String
    open var animationFillMode: String
    open var animationIterationCount: String
    open var animationName: String
    open var animationPlayState: String
    open var animationTimingFunction: String
    open var backfaceVisibility: String
    open var background: String
    open var backgroundColor: String
    open var backgroundImage: String
    open var backgroundOrigin: String
    open var backgroundPosition: String
    open var backgroundRepeat: String
    open var backgroundSize: String
    open var border: String
    open var borderBottom: String
    open var borderBottomColor: String
    open var borderBottomLeftRadius: String
    open var borderBottomRightRadius: String
    open var borderBottomStyle: String
    open var borderBottomWidth: String
    open var borderCollapse: String
    open var borderColor: String
    open var borderImage: String
    open var borderImageOutset: String
    open var borderImageRepeat: String
    open var borderImageSlices: String
    open var borderImageSource: String
    open var borderImageWidth: String
    open var borderLeft: String
    open var borderLeftColor: String
    open var borderLeftStyle: String
    open var borderLeftWidth: String
    open var borderRadius: String
    open var borderRight: String
    open var borderRightColor: String
    open var borderRightStyle: String
    open var borderRightWidth: String
    open var borderSpacing: String
    open var borderStyle: String
    open var borderTop: String
    open var borderTopColor: String
    open var borderTopLeftRadius: String
    open var borderTopRightRadius: String
    open var borderTopStyle: String
    open var borderTopWidth: String
    open var bottom: String
    open var boxShadow: String
    open var boxSizing: String
    open var breakAfter: String
    open var breakBefore: String
    open var breakInside: String
    open var captionSide: String
    open var clear: String
    open var color: String
    open var columnCount: String
    open var columnRule: String
    open var columnRuleColor: String
    open var columnRuleStyle: String
    open var columnRuleWidth: String
    open var columnSpan: String
    open var columnWidth: String
    open var columns: String
    open var content: String
    open var counterIncrement: String
    open var counterReset: String
    open var cursor: String
    open var direction: String
    open var display: String
    open var emptyCells: String
    open var filter: String
    open var flex: String
    open var flexBasis: String
    open var flexDirection: String
    open var flexGrow: String
    open var flexShrink: String
    open var flexWrap: String
    open var font: String
    open var fontFamily: String
    open var fontStyle: String
    open var fontWeight: String
    open var fontLanguageOverride: String
    open var fontStyle: String
    open var fontStretch: String
    open var fontSize: String
    open var fontSynthesis: String
    open var fontVariant: String
    open var fontVariantAlternates: String
    open var fontVariantCaps: String
    open var
GitHub.com/kotlin/dukat for details\n\nunpackage org.w3c.dom.events\nunimport kotlin.js.*\nunimport org.khronos.webgl!*unimport org.w3c.css.masking!*unimport org.w3c.dom.*\nunimport org.w3c.dom.clipboard.*unimport org.w3c.dom.css.*unimport org.w3c.dom.mediacapture.*unimport org.w3c.dom.parsing.*unimport org.w3c.dom.pointerevents.*\nunimport org.w3c.dom.svg.*unimport org.w3c.dom.url.*unimport org.w3c.dom.fetch.*unimport org.w3c.dom.files.*unimport org.w3c.dom.notifications.*unimport org.w3c.performance.*unimport org.w3c.dom.workers.*unimport org.w3c.xhr.*un\nun*/** * Exposes the JavaScript

[UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin
*/un\nun*/** * Exposes the JavaScript

[FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin
*/un\nun*/** * Exposes the JavaScript

[MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin
*/un

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modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, View: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false; MouseEventInit {n val o = js("{}")n o["screenX"] = screenXn o["screenY"] = screenYn o["clientX"] = clientXn o["clientY"] = clientYn o["button"] = buttonn o["buttons"] = buttonsn o["relatedTarget"] = relatedTargetn o["region"] = regionn o["ctrlKey"] = ctrlKeyn o["shiftKey"] = shiftKeyn o["altKey"] = altKeyn o["metaKey"] = metaKeyn o["modifierAltGraph"] = modifierAltGraphn o["modifierCapsLock"] = modifierCapsLockn o["modifierFn"] = modifierFnn o["modifierFnLock"] = modifierFnLockn o["modifierHyper"] = modifierHypern o["modifierNumLock"] = modifierNumLockn o["modifierScrollLock"] = modifierScrollLockn o["modifierSuper"] = modifierSupern o["modifierSymbol"] = modifierSymboln o["modifierSymbolLock"] = modifierSymbolLockn o["view"] = viewn o["detail"] = detailn o["bubbles"] = bubblesn o["cancelable"] = cancelablen o["composed"] = composesn return o}n

public external interface EventModifierInit : UIEventInit {
    var ctrlKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierAltGraph: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierCapsLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFn: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifier FnLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierHyper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierNumLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierScrollLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSuper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbol: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbolLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally

public external interface EventModifierInit : UIEventInit {
    var ctrlKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierAltGraph: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierCapsLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFn: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFnLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierHyper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierNumLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierScrollLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSuper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbol: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbolLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally

/**
 * Exposes the JavaScript
[WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin
 */
public external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {
    open val deltaX: Double
    open val deltaY: Double
    open val deltaZ: Double
    open val deltaMode: Int

    companion object {
        val DOM_DELTA_PIXEL: Int
        val DOM_DELTA_LINE: Int
        val DOM_DELTA_PAGE: Int
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface WheelEventInit : MouseEventInit {
    var deltaX: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaY: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaZ: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaMode: Int? = 0
    var view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false; WheelEventInit {n val o = js("{}")n o["ctrlKey"] = ctrlKeyn o["shiftKey"] = shiftKeyn o["altKey"] = altKeyn o["metaKey"] = metaKeyn o["modifierAltGraph"] = modifierAltGraphn o["modifierCapsLock"] = modifierCapsLockn o["modifierFn"] = modifierFnn o["modifierFnLock"] = modifierFnLockn o["modifierHyper"] = modifierHypern o["modifierNumLock"] = modifierNumLockn o["modifierScrollLock"] = modifierScrollLockn o["modifierSuper"] = modifierSupern o["modifierSymbol"] = modifierSymboln o["modifierSymbolLock"] = modifierSymbolLockn o["view"] = viewn o["detail"] = detailn o["bubbles"] = bubblesn o["cancelable"] = cancelablen o["composed"] = composedn return o}n

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definedExternally
var deltaY: Double? /* = 0.0 */
get() = definedExternally
set(value) =
definedExternally
var deltaZ: Double? /* = 0.0 */
get() = definedExternally
set(value) =
definedExternally
var deltaMode: Int? /* = 0 */
get() = definedExternally
set(value) =

@kotlin.internal.InlineOnly
public inline fun WheelEventInit(deltaX: Double? = 0.0,
    val o = js("({})")
    o["deltaX"] = deltaX
    o["deltaY"] = deltaY
    o["deltaZ"] = deltaZ
    o["deltaMode"] = deltaMode
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    return o
}

/**
 * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin
 */
public external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {
    open val data: String
    open val isComposing: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface InputEventInit : UIEventInit {
        var data: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
        var isComposing: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["data"] = data
        o["isComposing"] = isComposing
        o["view"] = view
        o["detail"] = detail
        return o
    }

    /**
     * Exposes the JavaScript [KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin
     */
    public external open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {
        open val key: String
        open val code: String
        open val location: Int
        open val ctrlKey: Boolean
        open val shiftKey: Boolean
        open val altKey: Boolean
        open val metaKey: Boolean
        open val repeat: Boolean
        open val isComposing: Boolean
        open val charCode: Int
        open val keyCode: Int
        open val which: Int
        fun getModifierState(keyArg: String): Boolean

        companion object {
            val DOM_KEY_LOCATION_STANDARD: Int
            val DOM_KEY_LOCATION_LEFT: Int
            val DOM_KEY_LOCATION_RIGHT: Int
            val DOM_KEY_LOCATION_NUMPAD: Int
        }

        public external interface KeyboardEventInit : EventModifierInit {
            var key: String? /* = "" */
                get() = definedExternally
                set(value) = definedExternally
            var code: String? /* = "" */
                get() = definedExternally
                set(value) = definedExternally
            var location: Int
            var repeat: Boolean
            var isComposing: Boolean
            var charCode: Int
            var keyCode: Int
            var which: Int
            fun getModifierState(keyArg: String): Boolean
        }
    }

    var key: String
        get() = definedExternally
        set(value) = definedExternally
    var code: String
        get() = definedExternally
        set(value) = definedExternally
    var location: Int
        get() = definedExternally
        set(value) = definedExternally
    var ctrlKey: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var repeat: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var isComposing: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var charCode: Int
        get() = definedExternally
        set(value) = definedExternally
    var keyCode: Int
        get() = definedExternally
        set(value) = definedExternally
    var which: Int
        get() = definedExternally
        set(value) = definedExternally

    fun getModifierState(keyArg: String): Boolean

    DOM_KEY_LOCATION_STANDARD: Int
    DOM_KEY_LOCATION_LEFT: Int
    DOM_KEY_LOCATION_RIGHT: Int
    DOM_KEY_LOCATION_NUMPAD: Int

org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external abstract class HTMLAllCollection {
    open val length: Int
    fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?
    fun namedItem(name: String): UnionElementOrHTMLCollection?
}

@kotlin.internal.InlineOnly
public inline operator fun HTMLAllCollection.get(index: Int): Element? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]

/**
 * Exposes the JavaScript [HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection) to Kotlin
 */
public external abstract class HTMLFormControlsCollection : HTMLCollection

/**
 * Exposes the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin
 */
public external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {
    open var value: String
}

/**
 * Exposes the JavaScript [HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin
 */
public external abstract class HTMLOptionsCollection : HTMLCollection {
    override var length: Int
    open
    var selectedIndex: Int
    fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)
    fun remove(index: Int)
}

@kotlin.internal.InlineOnly
public inline operator fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }

/**
 * Exposes the JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin
 */
public external abstract class HTMLElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers,
ElementContentEditable, ElementCSSInlineStyle {
    open var title: String
    open var lang: String
    open var translate: Boolean
    open var dir: String
    open val dataset: DOMStringMap
    open var hidden: Boolean
    open var tabIndex: Int
    open var accessKey: String
    open val accessKeyLabel: String
    open var draggable: Boolean
    open val dropzone: DOMTokenList
    open var contextMenu: HTMLMenuElement?
    open var spellcheck: Boolean
    open var innerText: String
    open val offsetParent: Element?
    open val offsetTop: Int
    open val offsetLeft: Int
    open val offsetWidth: Int
    open val offsetHeight: Int
    fun click()
    fun focus()
    fun blur()
    fun forceSpellCheck()

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin
 */
public external abstract class HTMLUnknownElement : HTMLElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
    }
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

DOMStringMap.get(name: String): String? = asDynamic()[name] as String

DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }

/**
 * Exposes the JavaScript [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin
 */
public external abstract class DOMStringMap

@kotlin.internal.InlineOnly
public inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]

@kotlin.internal.InlineOnly
public inline operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }

/**
 * Exposes the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin
 */
public external abstract class HTMLHeadElement : HTMLElement {
    open var version: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin
 */
public external abstract class HTMLTitleElement : HTMLElement {
    open var text: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin
 */
public external abstract class HTMLBaseElement : HTMLElement {
    open var href: String
    open var target: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
**Exposes the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin */

```kotlin
public external abstract class HTMLLinkElement : HTMLElement, LinkStyle {
    open var href: String
    open var crossOrigin: String?
    open var rel: String
    open var as: RequestDestination
    open val relList: DOMTokenList
    open var media: String
    open var nonce: String
    open var hreflang: String
    open var type: String
    open var rev: String
    open var target: String
    open var scope: String
    open var workerType: WorkerType

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

**Exposes the JavaScript [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin */

```kotlin
public external abstract class HTMLMetaElement : HTMLElement {
    open var name: String
    open var httpEquiv: String
    open var content: String
    open var scheme: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

**Exposes the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin */

```kotlin
public external abstract class HTMLStyleElement : HTMLElement, LinkStyle {
    open var media: String
    open var nonce: String
    open var type: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

**Exposes the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin */

```kotlin
public external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {
    open var text: String
    open var link: String
    open var vLink: String
    open var aLink: String
    open var bgColor: String
    open var background: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}```
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16073

/**
 * Exposes the JavaScript [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin
 */
public external abstract class HTMLHeadingElement : HTMLElement {
    open var align: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin
 */
public external abstract class HTMLParagraphElement : HTMLElement {
    open var align: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin
 */
public external abstract class HTMLHRElement : HTMLElement {
    open var align: String
    open var color: String
    open var noShade: Boolean
    open var size: String
    open var width: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin
 */
public external abstract class HTMLPreElement : HTMLElement {
    open var width: Int

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/* Exposes the JavaScript HTMLListElement (https://developer.mozilla.org/en/docs/Web/API/HTMLListElement) to Kotlin */

open var compact: Boolean

companion object {

    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
}

/**
 * Exposes the JavaScript HTMLDivElement (https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin */

open var align: String

companion object {

    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
}

/**
 * Exposes the JavaScript HTMLAnchorElement (https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin */

open var target: String
    open var download: String
    open var ping: String
    open var rel: String
    open val relList: DOMTokenList
    open var hreflang: String
    open var type: String
    open var text: String
    open var referrerPolicy: String
    open var coords: String
    open var charset: String
    open var name: String
    open var rev: String
    open var shape: String

companion object {

    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
}
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

*/

/* Exposes the JavaScript [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin */

public external abstract class HTMLTimeElement : HTMLElement {
    open var dateTime: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin */

public external abstract class HTMLSpanElement : HTMLElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin */

public external abstract class HTMLBRElement : HTMLElement {
    open var clear: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes

[HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin */

public external interface HTMLHyperlinkElementUtils {  
    var href: String
    val origin: String
    var protocol: String
    var username: String
    var password: String
    var host: String
    var hostname: String
    var port: String
    var pathname: String
    var search: String
    var hash: String
}

/**
 * Exposes

[HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin */

public external abstract class HTMLModElement : HTMLElement {
    open var cite: String
    open var dateTime: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
open var marginHeight: String
    open var marginWidth: String
    fun getSVGDocument(): Document?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin
 */
public external abstract class HTMLEmbedElement : HTMLElement {
    open var src: String
    open var type: String
    open var width: String
    open var height: String
    open var align: String
    open var name: String
    fun getSVGDocument(): Document?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin
 */
public external abstract class HTMLObjectElement : HTMLElement {
    open var data: String
    open var type: String
    open var typeMustMatch: Boolean
    open var name: String
    open var useMap: String
    open val form: HTMLFormElement?
    open var width: String
    open var height: String
    open val contentDocument: Document?
    open val contentWindow: Window?
    open var willValidate: Boolean
    open var validity: ValidityState
    open var validationMessage: String
    open var open: Boolean
    open var openVar: String
    open var declare: Boolean
    open var hspace: Int
    open var standby: String
    open var vspace: Int
    open var codeBase: String
    open var codeType: String
    open var border: String
    fun getSVGDocument(): Document?
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean
    fun setCustomValidity(error: String)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin
 */
public external abstract class HTMLParamElement : HTMLElement {
    open var name: String
    open var value: String
    open var type: String
    open var valueType: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
/**
 * Exposes the JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin
 */
public external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {
    open var width: Int
    open var height: Int
    open val videoWidth: Int
    open val videoHeight: Int
    open var poster: String
    open var playsInline: Boolean

    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_METADATA: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin
 */
public external abstract class HTMLAudioElement : HTMLMediaElement {
    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_METADATA: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin
 */
public external abstract class HTMLTrackElement : HTMLElement {
    open var kind: String
    open var src: String
    open var srclang: String
    open var label: String
    open var default: Boolean
    open val readyState: Short
    open val track: TextTrack

    companion object {
        val NONE: Short
        val LOADING: Short
        val LOADED: Short
        val ERROR: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

**HTMLMediaElement** *(https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement)* to Kotlin

`val` used in **Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16080**
abstract class TextTrackList : EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackById(id: String): TextTrack?
    fun getTrackList(id: String): Collection<TextTrack>
    fun getTrackListWithKind(kind: TextTrackKind): Collection<TextTrack>
}

@kotlin.internal.InlineOnly
public inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index]

/**
 * Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin
 */
public external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {
    open val kind: TextTrackKind
    open val label: String
    open val language: String
    open val id: String
    open val inBandMetadataTrackDispatchType: String
    open var mode: TextTrackMode
    open var oncuechange: ((Event) -> dynamic)?
    fun addCue(cue: TextTrackCue)
    fun removeCue(cue: TextTrackCue)
}

public external abstract class TextTrackCueList {
    open val length: Int
    fun getCueById(id: String): TextTrackCue?
}

@kotlin.internal.InlineOnly
public inline operator fun TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index]

/**
 * Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin
 */
public external abstract class TextTrackCue : EventTarget {
    open var track: TextTrack?
    open var id: String
    open var startTime: Double
    open var endTime: Double
    open var pauseOnExit: Boolean
    open var onenter: ((Event) -> dynamic)?
    open var onexit: ((Event) -> dynamic)?
}

/**
 * Exposes the JavaScript [TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin
 */
public external abstract class TimeRanges {
    open val length: Int
    fun start(index: Int): Double
    fun end(index: Int): Double
}

/**
 * Exposes the JavaScript [TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin
 */
public external open class TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {
    open val track: UnionAudioTrackOrTextTrackOrVideoTrack?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface TrackEventInit : EventInit {
    var track: UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["track"] = track
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin
 */
public external abstract class HTMLMapElement : HTMLElement {
    open var name: String
    open val areas: HTMLCollection

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINEDBY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin
 */
public external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {
    open var alt: String
    open var coords: String
    open var shape: String
    open var target: String
    open var download: String
    open var ping: String
    open var rel: String
    open var referrerPolicy: String
    open var noHref: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINEDBY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16082
val DOCUMENT_POSITION_CONTAINED_BY: Short = val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short = Exposes the JavaScript [HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin

/* * Exposes the JavaScript [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin */

public external abstract class HTMLTableRowElement : HTMLElement {
    open val rowIndex: Int
    open val sectionRowIndex: Int
    open val cells: HTMLCollection
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertCell(index: Int = definedExternally): HTMLElement
    fun deleteCell(index: Int)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/* * Exposes the JavaScript [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin */

public external abstract class HTMLTableCellElement : HTMLElement {
    open var colSpan: Int
    open var rowSpan: Int
    open var headers: String
    open val cellIndex: Int
    open var scope: String
    open var abbr: String
    open var align: String
    open var axis: String
    open var height: String
    open var width: String
    open var ch: String
    open var chOff: String
    open var noWrap: Boolean
    open var vAlign: String
    open var bgColor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/* * Exposes the JavaScript [HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin */

public external abstract class HTMLFormElement : HTMLElement {
    open var acceptCharset: String
    open var action: String
    open var autocomplete: String
    open var enctype: String
    open var encoding: String
    open var method: String
    open var name: String
    open var noValidate: Boolean
    open var target: String

val elements: HTMLFormControlsCollection
open val length: Int
fun submit(): Boolean
fun reset(): Boolean
fun checkValidity(): Boolean
fun reportValidity(): Boolean
companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

@kotlin.internal.InlineOnly
public inline operator fun HTMLFormElement.get(index: Int): Element? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]

/**
 * Exposes the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin
 */
public external abstract class HTMLLabelElement : HTMLElement {
open val form: HTMLFormElement?
open var htmlFor: String
open val control: HTMLElement?

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin
 */
public external abstract class HTMLInputElement : HTMLElement {
open var accept: String
open var alt: String
open var autocomplete: String
open var autofocus: Boolean
open var defaultChecked: Boolean
open var checked: Boolean
open var dirName: String
open var disabled: Boolean
open val form: HTMLFormElement?
open val files: FileList?
open var formAction: String
open var formEnctype: String
open var formMethod: String
open var formNoValidate: Boolean
open var formTarget: String
open var height: Int
open var indeterminate: Boolean
open var inputMode: String
open var label: String
open var pattern: String
open var placeholder: String
open var readOnly: Boolean
open var required: Boolean
open var size: Int
open var src: String
open var step: String
open var type: String
open var value: String
open var valueAsDate: dynamic
open var valueAsNumber: Double
open var width: Int
open val willValidate: Boolean
open val valid: Boolean
open val validationMessage: String
open val labels: NodeList
open var selectionStart: Int
open var selectionEnd: Int
open var selectionDirection: String
open var selection: Node
open fun stepUp(n: Int = definedExternally)
open fun stepDown(n: Int = definedExternally)
open fun checkValidity(): Boolean
open fun reportValidity(): Boolean
open fun setCustomValidity(error: String)
open fun setRangeText(replacement: String)
open fun setRangeText(replacement: String, start: Int, end: Int, direction: String = definedExternally)
open companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16084
**Exposes the JavaScript HTMLButtonElement to Kotlin**

```kotlin
public external abstract class HTMLButtonElement : HTMLElement {
    open var autofocus: Boolean

    open var disabled: Boolean
    open val form: HTMLFormElement?
    open var formAction: String
    open var formEnctype: String
    open var formMethod: String
    open var formNoValidate: Boolean
    open var formTarget: String
    open var name: String
    open var type: String
    open var value: String
    open var menu: HTMLMenuElement?
    open val willValidate: Boolean
    open val validity: ValidityState
    open val validationMessage: String
    open val labels: NodeList
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean
    fun setCustomValidity(error: String)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

**Exposes the JavaScript HTMLSelectElement to Kotlin**

```kotlin
public external abstract class HTMLSelectElement : HTMLElement, ItemArrayLike<Element> {
    open var autocomplete: String
    open var autofocus: Boolean
    open var disabled: Boolean
    open val form: HTMLFormElement?
    open var multiple: Boolean
    open var name: String
    open var required: Boolean

    open var size: Int
    open val type: String
    open val options: HTMLOptionsCollection
    override var length: Int
    open val selectedOptions: HTMLCollection
    open var selectedIndex: Int
    open var value: String

    open val willValidate: Boolean
    open val validity: ValidityState
    open val validationMessage: String
    open val labels: NodeList
    fun namedItem(name: String): HTMLOptionElement?
    fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)
    fun remove(index: Int)
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean
    fun setCustomValidity(error: String)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

@kotlin.internal.InlineOnly
public inline operator fun HTMLSelectElement.get(index: Int): Element? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun HTMLSelectElement.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }
/**
 * Exposes the JavaScript [HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin
 */
public external abstract class HTMLMeterElement : HTMLElement {
    open var value: Double
    open var min: Double
    open var max: Double
    open var low: Double
    open var high: Double
    open var optimum: Double
    open val labels: NodeList

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin
 */
public external abstract class HTMLFieldSetElement : HTMLElement {
    open var disabled: Boolean
    open val form: HTMLFormElement?
    open var name: String
    open val type: String
    open val elements: HTMLCollection
    open val willValidate: Boolean
    open val validity: ValidityState
    open val validationMessage: String
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean
    fun setCustomValidity(error: String)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin
 */
public external abstract class HTMLLegendElement : HTMLElement {
    open val form: HTMLFormElement?
    open var align: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin
 */
public external abstract class ValidityState {
    open val valueMissing: Boolean
    open val typeMismatch: Boolean
    open val patternMismatch: Boolean
    open val tooLong: Boolean
    open val tooShort: Boolean
    open val
rangeUnderflow: Boolean
open val rangeOverflow: Boolean
open val stepMismatch: Boolean
open val badInput: Boolean
open val customError: Boolean
open val valid: Boolean
}

/**
 * Exposes the JavaScript \[HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin
 */
public external abstract class HTMLDetailsElement : HTMLElement {
    open var open: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

public external abstract class HTMLMenuElement : HTMLElement {
    open var type: String
    open var label: String
    open var compact: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

public external abstract class HTMLMenuItemElement : HTMLElement {
    open var type: String
    open var label: String
    open var icon: String
    open var disabled: Boolean
    open var checked: Boolean
    open var radiogroup: String
    open var default: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

public external open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {
    open var relatedTarget: EventTarget?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface RelatedEventInit : EventInit {
    var relatedTarget: EventTarget? /* = null */
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["relatedTarget"] = relatedTarget
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript \[HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin
 */
public external abstract class HTMLDialogElement : HTMLElement {
    open var open: Boolean
    open var returnValue: String
    fun show(anchor: UnionElementOrMouseEvent = definedExternally)
    fun showModal(anchor: UnionElementOrMouseEvent = definedExternally)
    fun close(returnValue: String = definedExternally)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
    }
}
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Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin
 */
public external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {
    open var src: String
    open var type: String
    open var charset: String
    open var async: Boolean
    open var defer: Boolean
    open var crossOrigin: String?
    open var text: String
    open var nonce: String
    open var event: String
    open var htmlFor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin
 */
public external abstract class HTMLTemplateElement : HTMLElement {
    open val content: DocumentFragment

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin
 */
public external abstract class HTMLSlotElement : HTMLElement {
    open var name: String
    fun assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface AssignedNodesOptions {
    var flatten: Boolean? /* = false */
        get() = definedExternally
        set(value) =
Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean
  fun isPointInStroke(x: Double, y: Double): Boolean

unpublish external interface CanvasUserInterface {
  fun drawFocusIfNeeded(element: Element)
  fun drawFocusIfNeeded(path: Path2D, element: Element)
  fun scrollPathIntoView(path: Path2D)
  fun unpublic external interface CanvasText {
    fun fillText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)
    fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)
    fun measureText(text: String): TextMetrics
  }

unpublic external interface CanvasDrawImage {
  fun drawImage(image: CanvasImageSource, sx: Double, sy: Double, dx: Double, dy: Double)
  fun drawImage(image: CanvasImageSource, sx: Double, sy: Double, dx: Double, dy: Double, dw: Double, dh: Double)
}

unpublic external interface CanvasHitRegion {
  fun addHitRegion(options: HitRegionOptions = definedExternally)
  fun removeHitRegion(id: String)
  fun clearHitRegions()
}

unpublic external interface CanvasImageData {
  fun createImageData(sw: Double, sh: Double)
  fun createImageData(imagedata: ImageData)
  fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double)
  fun putImageData(imagedata: ImageData)
  fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double, dw: Double, dh: Double)
  fun putImageData(imagedata: ImageData, dx: Double, dy: Double, dw: Double, dh: Double)
}

unpublic external interface CanvasPathDrawingStyles {
  var lineWidth: Double
  var lineCap: CanvasLineCap
  var lineJoin: CanvasLineJoin
  var miterLimit: Double
  var lineDashOffset: Double
  fun setLineDash(segments: Array<Double>)
  fun getLineDash(): Array<Double>
}

unpublic external interface CanvasTextDrawingStyles {
  var font: String
  var textAlign: CanvasTextAlign
  var textBaseline: CanvasTextBaseline
  var direction: CanvasDirection
}

unpublic external interface CanvasHitRegion {
  fun addHitRegion(options: HitRegionOptions = definedExternally)
  fun removeHitRegion(id: String)
  fun clearHitRegions()
}

unpublic external interface CanvasImageData {
  fun createImageData(sw: Double, sh: Double)
  fun createImageData(imagedata: ImageData)
  fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double)
  fun putImageData(imagedata: ImageData)
}

unpublic external interface CanvasPath {
  fun closePath()
  fun moveTo(x: Double, y: Double)
  fun lineTo(x: Double, y: Double)
  fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)
  fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)
  fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)
  fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)
  fun rect(x: Double, y: Double, dx: Double, dy: Double)
  fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double)
}

/**
 * Exposes the JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin
 */
abstract class CanvasGradient {
  fun addColorStop(offset: Double, color: String)
}

/**
 * Exposes the JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin
 */
abstract class CanvasPattern {
  fun setTransform(transform: dynamic = definedExternally)
}

/**
 * Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin
 */
abstract class TextMetrics {
  open val width: Double
  open val actualBoundingBoxLeft: Double
  open val fontBoundingBoxAscent: Double
  open val fontBoundingBoxDescent: Double
  open val actualBoundingBoxAscent: Double
  open val actualBoundingBoxDescent: Double
  open val emHeightAscent: Double
  open val emHeightDescent: Double
  open val hangingBaseline: Double
  open val alphabeticBaseline: Double
  open val ideographicBaseline: Double
  open val path2D: Path2D
  fun measureText(text: String): TextMetrics
  fun getTextAlign(): CanvasTextAlign
  fun getTextBaseline(): CanvasTextBaseline
  fun getDirection(): CanvasDirection
  fun setTransform(transform: dynamic = definedExternally)
  fun setLineDash(segments: Array<Double>)
  fun getLineDash(): Array<Double>
  fun setLineCap(lineCap: CanvasLineCap)
  fun setLineJoin(lineJoin: CanvasLineJoin)
  fun setLineWidth(lineWidth: Double)
  fun setLineDashOffset(lineDashOffset: Double)
  fun setMiterLimit(miterLimit: Double)
  fun setColor(color: Color)
  fun setGlobalAlpha(globalAlpha: Number)
  fun setGlobalCompositeOperation(operation: CANVAS_COMPOSITES)
  fun setGlobalFontSmoothing(fontSmoothing: Number)
  fun setGlobalRenderingHint(renderingHint: Number)
  fun setGlobalTransform(transform: dynamic = definedExternally)


external abstract class DataTransferItem {\n open val kind: String\n open val type: String\n fun
getAsString(_callback: ((String) -> Unit)?)\n fun getAsFile(): File?\n}\n\n/**\n * Exposes the JavaScript
[DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent) to Kotlin\n */\npublic external open class
DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n open val
dataTransfer: DataTransfer?\n\n companion object {\n
val NONE: Short\n
val CAPTURING_PHASE:
Short\n
val AT_TARGET: Short\n
val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
DragEventInit : MouseEventInit {\n var dataTransfer: DataTransfer? /* = null */\n
get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DragEventInit(dataTransfer:
DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
false): DragEventInit {\n val o = js(\"({})\")\n o[\"dataTransfer\"] = dataTransfer\n o[\"screenX\"] = screenX\n
o[\"screenY\"] = screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"] = clientY\n o[\"button\"] = button\n
o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n o[\"region\"] = region\n o[\"ctrlKey\"] =
ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n
o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n
o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"] =
modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n o[\"modifierScrollLock\"] =
modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n
o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] = view\n o[\"detail\"] = detail\n
o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to
Kotlin\n */\npublic external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers,
WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance,
UnionMessagePortOrWindowProxy {\n open val window: Window\n open val self: Window\n open val
document: Document\n open var name: String\n open val location: Location\n open val history: History\n
open val customElements: CustomElementRegistry\n open val locationbar: BarProp\n open val menubar:
BarProp\n open val personalbar: BarProp\n open val scrollbars: BarProp\n open val statusbar: BarProp\n
open val toolbar: BarProp\n open var status: String\n open val closed: Boolean\n open val frames: Window\n
open val length: Int\n open val top: Window\n open var opener: Any?\n open val parent: Window\n open val
frameElement: Element?\n open val navigator: Navigator\n open val applicationCache: ApplicationCache\n
open val external: External\n open val screen: Screen\n open val innerWidth: Int\n open val innerHeight: Int\n
open val scrollX: Double\n open val pageXOffset: Double\n open val scrollY: Double\n open val
pageYOffset: Double\n open val screenX: Int\n open val screenY: Int\n open val outerWidth: Int\n open val
outerHeight: Int\n open val devicePixelRatio: Double\n fun close()\n fun stop()\n fun focus()\n fun blur()\n
fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally):
Window?\n fun alert()\n fun alert(message: String)\n fun confirm(message: String = definedExternally):
Boolean\n fun prompt(message: String = definedExternally, default: String = definedExternally): String?\n fun
print()\n fun requestAnimationFrame(callback: (Double) -> Unit): Int\n fun cancelAnimationFrame(handle:
Int)\n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n
fun captureEvents()\n fun releaseEvents()\n fun matchMedia(query: String): MediaQueryList\n fun moveTo(x:
Int, y: Int)\n fun moveBy(x: Int, y: Int)\n fun resizeTo(x: Int, y: Int)\n fun resizeBy(x: Int, y: Int)\n fun
scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x: Double, y: Double)\n fun scrollTo(options:
ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n fun scrollBy(options:

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val status: Short
    open var onchecking: ((Event) -> dynamic)?
    open var onerror: ((Event) -> dynamic)?
    open var onnoupdate: ((Event) -> dynamic)?
    open var ondownloading: ((Event) -> dynamic)?
    open var onprogress: ((ProgressEvent) -> dynamic)?
    open var onupdateready: ((Event) -> dynamic)?
    open var oncached: ((Event) -> dynamic)?
    open var onobsolete: ((Event) -> dynamic)?
    fun update()
    fun abort()
    fun swapCache()

    companion object {
        val UNCACHED: Short
        val IDLE: Short
        val CHECKING: Short
        val DOWNLOADING: Short
        val UPDATEREADY: Short
        val OBSOLETE: Short
    }
}

/**
 * Exposes the JavaScript

[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin
*/
public external interface NavigatorOnLine {
    val onLine: Boolean
}

/**
 * Exposes the JavaScript

[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin
*/
public external open class ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {
    open val filename: String
    open val lineno: Int
    open val colno: Int
    open val error: Any
    open val message: String
    open val filename: String
    open val lineno: Int
    open val colno: Int
    open val error: Any
    open val message: String
    open val filename: String
    open val lineno: Int
    open val colno: Int
    open val error: Any
    open val message: String
    open val filename: String
    open val lineno: Int
    open val colno: Int
    open val error: Any

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ErrorEventInit : EventInit {
    var message: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var filename: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var lineno: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var colno: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var error: Any? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["message"] = message
    o["filename"] = filename
    o["lineno"] = lineno
    o["colno"] = colno
    o["error"] = error
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript

[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin
*/
public external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {
    open val promise: Promise<Any>
    open val reason: Any

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface PromiseRejectionEventInit : EventInit {
    var promise: Promise<Any>?
        get() = definedExternally
        set(value) = definedExternally
    var reason: Any?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["promise"] = promise
    o["reason"] = reason
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript

[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin
*/
public external interface GlobalEventHandlers {
    var onabort: ((Event) -> dynamic)?
        get() = definedExternally
    var onblur: ((FocusEvent) -> dynamic)?
        get() = definedExternally
    var oncancel: ((Event) -> dynamic)?
        get() = definedExternally
    var onchange: ((Event) -> dynamic)?
        get() = definedExternally
    var onclick: ((MouseEvent) -> dynamic)?
        get() = definedExternally
    var onclose: ((Event) -> dynamic)?
        get() = definedExternally
    var oncontextmenu: ((MouseEvent) -> dynamic)?
        get() = definedExternally
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    var oncontextmenu: ((MouseEvent) -> dynamic)?
        get() = definedExternally
    var oncontextmenu: (Obje...
```java
set(value) = definedExternally
    var ontimeoutupdate: ((Event) -> dynamic)?
        get() = definedExternally
    var ontoggle: ((Event) -> dynamic)?
        get() = definedExternally
    var onvolumechange: ((Event) -> dynamic)?
        get() = definedExternally
    var onwaiting: ((Event) -> dynamic)?
        get() = definedExternally
    var ongotpointercapture: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        var onlostpointercapture: ((PointerEvent) -> dynamic)?
        get() = definedExternally
    var onvolumechange: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointermove: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    set(value) = definedExternally
    var onpointerdown: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointercancel: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointerover: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointerout: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointerenter: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpointerleave: ((PointerEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally

    set(value) = definedExternally
    var onafterprint: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onbeforeprint: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onbeforeunload: ((BeforeUnloadEvent) -> String)?
        get() = definedExternally
        set(value) = definedExternally
    var onhashchange: ((HashChangeEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onlanguagechange: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onmessage: ((MessageEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onoffline: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var ononline: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpagehide: ((PageTransitionEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpageshow: ((PageTransitionEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpopstate: ((PopStateEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onrejectionhandled: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onstorage: ((StorageEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onunload: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally

    var oncopy: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var cut: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var paste: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally

    var btoa(data: String): String
    var atob(data: String): String
    function setTimeout(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int
    function clearTimeout(handle: Int = definedExternally)
    function setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int
    function clearInterval(handle: Int = definedExternally)
    function createImageBitmap(image: ImageBitmapSource, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>
    function fetch(input: dynamic, init: RequestInit = definedExternally):
```

---

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16098
Promise<Response>\n|\n|\n|\n|\n
/**
 * Exposes the JavaScript [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n */

public external abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware \n

/**
 * Exposes the JavaScript [NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n */

public external interface NavigatorID {
    val appCodeName: String
    val appName: String
    val appVersion: String
    val platform: String
    val product: String
    val productSub: String
    val userAgent: String
    val vendor: String
    val vendorSub: String
    fun taintEnabled(): Boolean
}

/**
 * Exposes the JavaScript [NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n */

public external interface NavigatorLanguage {
    val language: String
    val languages: Array<String>
}

/**
 * Exposes the JavaScript [NavigatorContentUtils](https://developer.mozilla.org/en/docs/Web/API/NavigatorContentUtils) to Kotlin\n */

public external interface NavigatorContentUtils {
    fun registerProtocolHandler(scheme: String, url: String, title: String)
    fun registerContentHandler(mimeType: String, url: String, title: String)
    fun isProtocolHandlerRegistered(scheme: String, url: String): Boolean
    fun isContentHandlerRegistered(mimeType: String, url: String): Boolean
    fun unregisterProtocolHandler(scheme: String, url: String)
    fun unregisterContentHandler(mimeType: String, url: String)
}

/**
 * Exposes the JavaScript [NavigatorCookies](https://developer.mozilla.org/en/docs/Web/API/NavigatorCookies) to Kotlin\n */

public external interface NavigatorCookies {
    val cookieEnabled: Boolean
}

/**
 * Exposes the JavaScript [NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n */

public external interface NavigatorPlugins {
    val plugins: PluginArray
    val mimeTypes: MimeTypeArray
    fun javaEnabled(): Boolean
}

/**
 * Exposes the JavaScript [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n */

public external abstract class PluginArray : ItemArrayLike<Plugin> {
    fun refresh(reload: Boolean = definedExternally)
    override fun item(index: Int): Plugin?
    fun namedItem(name: String): Plugin?
}

@kotlin.internal.InlineOnly
public inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]

/**
 * Exposes the JavaScript [MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n */

public external abstract class MimeTypeArray : ItemArrayLike<MimeType> {
    override fun item(index: Int): MimeType?
    fun namedItem(name: String): MimeType?
}

@kotlin.internal.InlineOnly
public inline operator fun MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]

/**
 * Exposes the JavaScript [MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n */

public external abstract class MimeType {
    open val type: String
    open val description: String
    open val suffixes: String
    open val enabledPlugin: Plugin
}

/**
 * Exposes the JavaScript [ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n */

public external abstract class ImageBitmap : CanvasImageSource, TexImageSource {
    open val width: Int
    open val height: Int
    fun close()
}

public external interface ImageBitmapOptions {
    var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */
    var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */
}

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16099
ColorSpaceConversion.DEFAULT */
get() = definedExternally
set(value) = definedExternally
var resizeWidth: Int?
get() = definedExternally
set(value) = definedExternally
var resizeHeight: Int?
get() = definedExternally
set(value) = definedExternally
var resizeQuality: ResizeQuality? /* =
ResizeQuality.LOW */
get() = definedExternally
set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE,
premultiplyAlpha: PremultiplyAlpha? = PremultiplyAlpha.DEFAULT,
colorSpaceConversion: ColorSpaceConversion? = ColorSpaceConversion.DEFAULT,
resizeWidth: Int? = undefined,
resizeHeight: Int? = undefined,
resizeQuality: ColorSpaceConversion? = imageOrientation
o["premultiplyAlpha"] = premultiplyAlpha
o["colorSpaceConversion"] = colorSpaceConversion
o["resizeWidth"] = resizeWidth
o["resizeHeight"] = resizeHeight
o["resizeQuality"] = resizeQuality
return o
}"**
* Exposes the JavaScript [MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin
 */

public external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {
    open val data: Any?
    open val origin: String
    open val lastEventId: String
    open val source: UnionMessagePortOrWindowProxy?
    open val ports: Array<MessagePort>
    fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MessageEventInit : EventInit {
    var data: Any? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var origin: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var lastEventId: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var source: UnionMessagePortOrWindowProxy? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var ports: Array<MessagePort>? /* = arrayOf() */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["data"] = data
    o["origin"] = origin
    o["lastEventId"] = lastEventId
    o["source"] = source
    o["ports"] = ports
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}"**
* Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin
 */

public external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {
    open val url: String
    open val withCredentials: Boolean
    open val readyState: Short
    var onopen: ((Event) -> dynamic)?
    var onmessage: ((MessageEvent) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    fun close()

    companion object {
        val CONNECTING: Short
        val OPEN: Short
        val CLOSED: Short
    }
}

public external interface EventSourceInit {
    var withCredentials: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {
    val o = js("({})")
    o["withCredentials"] = withCredentials
    return o
}"**
* Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin
 */

public external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {
    open val url: String
    open val readyState: Short
    open val bufferedAmount: Number
    var onerror: ((Event) -> dynamic)?
    var onclose: ((Event) -> dynamic)?
    fun close(): UnionMessagePortOrWindowProxy
    companion object {
        val CONNECTING: Short
        val OPEN: Short
        val CLOSING: Short
        val CLOSED: Short
    }
}

public external interface EventSourceInit withCredentials: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    }

@kotlin.internal.InlineOnly
public inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit withCredentials: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    }

[Websocket](https://developer.mozilla.org/en/docs/Web/API/Websocket) to Kotlin
 */

public external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {
    open val url: String
    open val readyState: Short
    open val bufferedAmount: Number
    var onerror: ((Event) -> dynamic)?
    var onclose: ((Event) -> dynamic)?
    fun close(): String
    var binaryType: BinaryType
    fun send(data: String)
    fun send(data: Blob)
    fun send(data: ArrayBuffer)
    companion object {
        var onmessage: ((Event) -> dynamic)?
            get() = definedExternally
            set(value) = definedExternally
        }

@kotlin.internal.InlineOnly
public inline fun WebSocket(url: String, protocols: dynamic = definedExternally): WebSocket {
    val o = js("({})")
    o["url"] = url
    o["protocols"] = protocols
    return o
}"**
* Exposes the
JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin

```kotlin
public external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {
    open var wasClean: Boolean
    open var code: Short
    open var reason: String

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface CloseEventInit : EventInit {
        get() = definedExternally
        set(value) = definedExternally
        var wasClean: Boolean? /* = false */
        var code: Short? /* = 0 */
        var reason: String? /* = "" */
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["wasClean"] = wasClean
        o["code"] = code
        o["reason"] = reason
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        return o
    }
}
```

---

JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin

```kotlin
public external open class MessageChannel {
    open val port1: MessagePort
    open val port2: MessagePort
}
```

---

JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin

```kotlin
public external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {
    open var onmessage: (MessageEvent) -> dynamic
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun start()
    fun close()
}
```

---

JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin

```kotlin
public external open class BroadcastChannel(name: String) : EventTarget {
    open val name: String
    var onmessage: (MessageEvent) -> dynamic
    fun postMessage(message: Any?)
    fun close()
}
```

---

JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin

```kotlin
public external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {
    open val name: String
    open val applicationCache: ApplicationCache
    open var onconnect: (Event) -> dynamic
    fun close()
}
```

---

JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin

```kotlin
public external interface AbstractWorker {
    var onerror: ((Event) -> dynamic)
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun applicationCache: ApplicationCache
}
```

---

JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin

```kotlin
public external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {
    var onmessage: (MessageEvent) -> dynamic
    override var onerror: ((Event) -> dynamic)
    fun terminate()
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
}
```

---

JavaScript [WorkerOptions](https://developer.mozilla.org/en/docs/Web/API/WorkerOptions) to Kotlin

```kotlin
public external interface WorkerOptions {
    var type: WorkerType? /* = WorkerType.CLASSIC */
    var credentials: RequestCredentials? /* = RequestCredentials.OMIT */
}
```

---

JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin

```kotlin
public external interface WorkerGlobalScope {
    var onerror: ((Event) -> dynamic)
        get() = definedExternally
        set(value) = definedExternally
}
```

---

JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin

```kotlin
public external interface DedicatedWorkerGlobalScope {
    var onmessage: (MessageEvent) -> dynamic
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun close()
}
```

---

JavaScript [SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin

```kotlin
public external interface SharedWorkerGlobalScope {
    open var name: String
    fun close()
}
```

---

JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin

```kotlin
public external interface AbstractWorker {
    var onerror: ((Event) -> dynamic)
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun applicationCache: ApplicationCache
}
```

---

JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin

```kotlin
public external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {
    var onmessage: (MessageEvent) -> dynamic
    override var onerror: ((Event) -> dynamic)
    fun terminate()
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
}
```

---

JavaScript [WorkerOptions](https://developer.mozilla.org/en/docs/Web/API/WorkerOptions) to Kotlin

```kotlin
public external interface WorkerOptions {
    var type: WorkerType? /* = WorkerType.CLASSIC */
    var credentials: RequestCredentials? /* = RequestCredentials.OMIT */
}
```

---

JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin

```kotlin
public external open class MessageChannel {
    open val port1: MessagePort
    open val port2: MessagePort
}
```

---

JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin

```kotlin
public external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {
    open var onmessage: (MessageEvent) -> dynamic
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun start()
    fun close()
}
```

---

JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin

```kotlin
public external open class BroadcastChannel(name: String) : EventTarget {
    open val name: String
    var onmessage: (MessageEvent) -> dynamic
    fun postMessage(message: Any?)
    fun close()
}
```

---

JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin

```kotlin
public external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {
    open val name: String
    open val applicationCache: ApplicationCache
    open var onconnect: (Event) -> dynamic
    fun close()
}
```

---

JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin

```kotlin
public external interface AbstractWorker {
    var onerror: ((Event) -> dynamic)
        get() = definedExternally
        set(value) = definedExternally
}
```

---

JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin

```kotlin
public external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {
    var onmessage: (MessageEvent) -> dynamic
    override var onerror: ((Event) -> dynamic)
    fun terminate()
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
}
```

---

JavaScript [WorkerOptions](https://developer.mozilla.org/en/docs/Web/API/WorkerOptions) to Kotlin

```kotlin
public external interface WorkerOptions {
    var type: WorkerType? /* = WorkerType.CLASSIC */
    var credentials: RequestCredentials? /* = RequestCredentials.OMIT */
}
```
WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {
  o[type] = type
  o["credentials"] = credentials
  return o
}

/**
 * Exposes the JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin
 */
public external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {
  val port: MessagePort
  override var onerror: ((Event) -> dynamic)?
}

/**
 * Exposes the JavaScript [NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin
 */
public external abstract class NavigatorConcurrentHardware {
  val hardwareConcurrency: Number
}

/**
 * Exposes the JavaScript [WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin
 */
public external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {
  val serviceWorker: ServiceWorkerContainer
}

/**
 * Exposes the JavaScript [Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin
 */
public external abstract class Storage {
  val length: Int
  fun key(index: Int): String?
  fun removeItem(key: String)
  fun clear()
  fun getItem(key: String): String?
  fun setItem(key: String, value: String)
}

@kotlin.internal.InlineOnly
public inline operator fun Storage.get(key: String): String? = asDynamic()[key]/*@n@*/

@kotlin.internal.InlineOnly
public inline operator fun Storage.set(key: String, value: String) { asDynamic()[key] = value }

/**
 * Exposes the JavaScript [WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin
 */
public external interface WindowSessionStorage {
  val sessionStorage: Storage
}

/**
 * Exposes the JavaScript [WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin
 */
public external interface WindowLocalStorage {
  val localStorage: Storage
}

/**
 * Exposes the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin
 */
public external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {
  open val key: String?
  open val oldValue: String?
  open val newValue: String?
  open val url: String
  open val storageArea: Storage?

  companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
  }

  @kotlin.internal.InlineOnly
    val o = js("({})")
    o["key"] = key
    o["oldValue"] = oldValue
    o["newValue"] = newValue
    o["url"] = url
    o["storageArea"] = storageArea
    return o
  }
}

public external abstract class HTMLAppletElement : HTMLElement {
  open var align: String
  open var alt: String
  open var archive: String
  open var code: String
  open var codeBase: String
  open var height: String
  open var hspace: Int
  open var name: String
  open var _object: String
  open var vspace: Int
  open var width: String

  companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
  }

  val ENTITY_REFERENCE_NODE: Short

Short

val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript
 *[HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin
*/
public external abstract class HTMLMarqueeElement : HTMLElement {
    open var behavior: String
    open var bgColor: String
    open var direction: String
    open var height: String
    open var hspace: Int
    open var loop: Int
    open var scrollAmount: Int
    open var scrollDelay: Int
    open var trueSpeed: Boolean
    open var vspace: Int
    open var width: String
    open var onbounce: ((Event) -> dynamic)?
    open var onfinish: ((Event) -> dynamic)?
    open var onstart: ((Event) -> dynamic)?
    fun start()
    fun stop()

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {
    open var cols: String
    open var rows: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external abstract class HTMLFrameElement : HTMLElement {
    open var name: String
    open var scrolling: String
    open var src: String
    open var frameborder: String
    open var longDesc: String
    open var noResize: Boolean
    open val contentDocument: Document?
    open val contentWindow: Window?
    open var marginHeight: String
    open var marginWidth: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external abstract class HTMLDirectoryElement : HTMLElement {
    open var compact: Boolean

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)
Node?\n  open val attributeName: String?\n  open val attributeNamespace: String?\n  open val oldValue: String?
}

/**
 * Exposes the JavaScript 
 * [Node](https://developer.mozilla.org/en/docs/Web/API/Node)
 * to Kotlin
 * 
 * \n * * unplublic external abstract class Node : EventTarget {
 *     open val nodeType: Short
 *     open val nodeName: String
 *     open val baseURI: String
 *     open val isConnected: Boolean
 *     open val ownerDocument: Document
 *     open val parentNode: Node
 *     open val childNodes: NodeList
 *     open val firstChild: Node
 *     open val lastChild: Node
 *     open val previousSibling: Node
 *     open val nextSibling: Node
 *     open var nodeValue: String
 *     open var textContent: String
 *     fun getRootNode(options: GetRootNodeOptions = definedExternally): Node
 *     fun normalize(): Node
 *     fun cloneNode(deep: Boolean = definedExternally): Node
 *     fun isEqualNode(otherNode: Node): Boolean
 *     fun contains(other: Node): Boolean
 *     fun lookupPrefix(namespace: String?): String
 *     fun lookupNamespaceURI(prefix: String?): String
 *     fun isDefaultNamespace(namespace: String?): Boolean
 *     fun insertBefore(node: Node, child: Node?): Node
 *     fun appendChild(node: Node): Node
 *     fun replaceChild(node: Node, child: Node?): Node
 *     fun removeChild(child: Node): Node
 * 
 *     companion object {
 *         val ELEMENT_NODE: Short
 *         val ATTRIBUTE_NODE: Short
 *         val TEXT_NODE: Short
 *         val CDATA_SECTION_NODE: Short
 *         val ENTITY_REFERENCE_NODE: Short
 *         val ENTITY_NODE: Short
 *         val PROCESSING_INSTRUCTION_NODE: Short
 *         val DOCUMENT_NODE: Short
 *         val DOCUMENT_TYPE_NODE: Short
 *         val DOCUMENT_FRAGMENT_NODE: Short
 *         val NOTATION_NODE: Short
 *         val DOCUMENT_POSITION_DISCONNECTED: Short
 *         val DOCUMENT_POSITION_PRECEDING: Short
 *         val DOCUMENT_POSITION_FOLLOWING: Short
 *         val DOCUMENT_POSITION_CONTAINS: Short
 *         val DOCUMENT_POSITION_CONTAINED_BY: Short
 *         val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 * 
 * GetRootNodeOptions {
 *     var composed: Boolean? = false
 *     get() = definedExternally
 *     set(value) = definedExternally
 * 
 * fun hasChildNodes(): Boolean
 * 
 * fun normalize(): Node
 * 
 * fun cloneNode(deep: Boolean = definedExternally): Node
 * 
 * fun isEqualNode(otherNode: Node): Boolean
 * 
 * fun contains(other: Node): Boolean
 * 
 * fun lookupPrefix(namespace: String?): String
 * 
 * fun lookupNamespaceURI(prefix: String?): String
 * 
 * fun isDefaultNamespace(namespace: String?): Boolean
 * 
 * fun insertBefore(node: Node, child: Node?): Node
 * 
 * fun appendChild(node: Node): Node
 * 
 * fun replaceChild(node: Node, child: Node?): Node
 * 
 * fun removeChild(child: Node): Node
 * 
 * }
 *
 * @kotlin.internal.InlineOnly
 * fun GetRootNodeOptions(composed: Boolean? = false): GetRootNodeOptions {
 *     val o = js("({})")
 *     o["composed"] = composed
 *     return o
 * }
 *
 * /**
 * * Exposes the JavaScript 
 * * [Document](https://developer.mozilla.org/en/docs/Web/API/Document)
 * * to Kotlin
 * */
 * 
 * public external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers, NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {
 *     open val implementation: DOMImplementation
 *     open val URL: String
 *     open val documentURI: String
 *     open val origin: String
 *     open val compatMode: String
 *     open val characterSet: String
 *     open val inputEncoding: String
 *     open val contentType: String
 *     open val doctype: DocumentType?
 *     open val documentElement: Element?
 *     open val location: Location?
 *     var domain: String
 *     open val lastModified: String
 *     var title: String
 *     var dir: String
 *     var body: HTMLElement?
 *     open val head: HTMLHeadElement?
 *     open val images: HTMLCollection
 *     open val embeds: HTMLCollection
 *     open val scripts: HTMLCollection
 *     open val currentScript: HTMLOrSVGScriptElement?
 *     open val defaultView: Window?
 *     open val activeElement: Element?
 *     var designMode: String
 *     var onreadystatechange: ((Event) -> dynamic)
 *     var fgColor: String
 *     var bgColor: String
 *     var linkColor: String
 *     var alinkColor: String
 *     var bgColor: String
 *     var linkColor: String
 *     var alinkColor: String
 *     var bgColor: String
 *     open val anchors: HTMLCollection
 *     open val applets: HTMLCollection
 *     open val all: HTMLAllCollection
 *     open val scrollingElement: Element?
 *     open val styleSheets: StyleSheetList
 *     open val rootElement: SVGSVGElement
 *     open val fullScreenEnabled: Boolean
 *     open val fullscreen: Boolean
 *     var onfullscreenchange: ((Event) -> dynamic)
 *     var onfullscreenerror: ((Event) -> dynamic)
 *     override var onAbort: ((Event) -> dynamic)
 *     override var onblur: ((FocusEvent) -> dynamic)
 *     override var oncancel: ((Event) -> dynamic)
 *     override var oncanplay: ((Event) -> dynamic)
 *     override var oncanplaythrough: ((Event) -> dynamic)
 *     override var onchange: ((Event) -> dynamic)
 *     override var oncontextmenu: ((MouseEvent) -> dynamic)
the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin

```kotlin
/* */
public external abstract class DOMImplementation {
    fun createDocumentType(qualifiedName: String?, qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument
    fun createHTMLDocument(title: String = definedExternally): Document
    fun hasFeature(): Boolean
}

/**
 * Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin
 */
public external abstract class DocumentType : Node, ChildNode {
    open val name: String
    open val publicId: String
    open val systemId: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin
 */
public external open class DocumentFragment : Node, NonElementParentNode, ParentNode {
    override val children: HTMLCollection
    override val firstElementChild: Element?
    override val lastElementChild: Element?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin
 */
public external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {
    open val mode: ShadowRootMode
    open val host: Element
    override val fullscreenElement: Element?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

/**
 * Exposes the JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin
 */
public external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils, UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent, UnionElementOrProcessingInstruction {
    open val namespaceURI: String?
    open val prefix: String?
```
open val name: String
open var value: String
open val ownerElement: Element?
open val specified: Boolean

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin
 */
public external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {
open var data: String
open val length: Int
fun substringData(offset: Int, count: Int): String
fun appendData(data: String)
fun insertData(offset: Int, data: String)
fun deleteData(offset: Int, count: Int)
fun replaceData(offset: Int, count: Int, data: String)

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin
 */
public external open class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {
open val wholeText: String
override val assignedSlot: HTMLSlotElement?
override val previousElementSibling: Element?
override val nextElementSibling: Element?
fun splitText(offset: Int): Text
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>
override fun convertQuadFromNode(quad: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint
override fun before(vararg nodes: dynamic)
override fun after(vararg nodes: dynamic)
override fun replaceWith(vararg nodes: dynamic)
override fun remove()

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin
 */
public external open class CDATASection : Text
DOMRectInit {
    var x: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var y: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var width: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var height: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {
    val o = js("({})")
    o["x"] = x
    o["y"] = y
    o["width"] = width
    o["height"] = height
    return o}

public external interface DOMRectList : ItemArrayLike<DOMRect> {
    override fun item(index: Int): DOMRect?
}

@kotlin.internal.InlineOnly
public inline operator fun DOMRectList.get(index: Int): DOMRect? = asDynamic()[index]

/**
 * Exposes the JavaScript [DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin *\n *\n *\n *\n */
public external open class DOMQuad {
    constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)
    constructor(rect: DOMRectInit)

    open val p1: DOMPoint
    open val p2: DOMPoint
    open val p3: DOMPoint
    open val p4: DOMPoint

    open val bounds: DOMRectReadOnly
}

/**
 * Exposes the JavaScript [DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin
 *\n *\n *\n */
public external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {
    open val a: Double
    open val b: Double
    open val c: Double
    open val d: Double
    open val e: Double
    open val f: Double
    open val m11: Double
    open val m12: Double
    open val m13: Double
    open val m14: Double
    open val m21: Double
    open val m22: Double
    open val m23: Double
    open val m24: Double
    open val m31: Double
    open val m32: Double
    open val m33: Double
    open val m34: Double
    open val m41: Double
    open val m42: Double
    open val m43: Double
    open val m44: Double
    open val is2D: Boolean
    open val isIdentity: Boolean
    fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix
    fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix
    fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally): DOMMatrix
    fun rotate(angle: Double, originX: Double, originY: Double = definedExternally): DOMMatrix
    fun rotateFromVector(x: Double, y: Double): DOMMatrix
    fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix
    fun skewX(sx: Double): DOMMatrix
    fun skewY(sy: Double): DOMMatrix
    fun multiply(other: DOMMatrix): DOMMatrix
    fun preMultiply(other: DOMMatrix): DOMMatrix
    fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix
    fun scaleSelf(scale: Double, originX: Double, originY: Double, originZ: Double = definedExternally): DOMMatrix
    fun scaleNonUniformSelf(scaleX: Double, scaleY: Double, scaleZ: Double = definedExternally): DOMMatrix
}
null
    o["box"] = box
    o["relativeTo"] = relativeTo
    return o
}

public external interface
ConvertCoordinateOptions {
    var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */
        get() = definedExternally
        set(value) = definedExternally
    var toBox: CSSBoxType? /* = CSSBoxType.BORDER */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ConvertCoordinateOptions(fromBox: CSSBoxType? /* = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER): ConvertCoordinateOptions {
    val o = js("({})")
    o["fromBox"] = fromBox
    o["toBox"] = toBox
    return o
}

/**
 * Exposes the JavaScript
[GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin
 */
public external interface GeometryUtils {
    fun getBoxQuads(options: BoxQuadOptions = definedExternally): Array<DOMQuad>
    fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad
    fun convertRectFromNode(rect: DOMRect): DOMRect
}

/**
 * Exposes the JavaScript
[Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin
 */
public external abstract class Touch {
    open val identifier: Int
    open val target: EventTarget
    open val screenX: Int
    open val screenY: Int
    open val clientX: Int
    open val clientY: Int
    open val pageX: Int
    open val pageY: Int
    open val metaKey: Boolean
    open val ctrlKey: Boolean
    open val shiftKey: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

/**
 * Exposes the JavaScript
[Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin
 */
public external open class Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLImageElement {
    override var onabort: ((Event) -> dynamic)?
    override var onblur: ((FocusEvent) -> dynamic)?
    override var oncancel: ((Event) -> dynamic)?
    override var oncanplay: ((Event) -> dynamic)?
    override var oncanplaythrough: ((Event) -> dynamic)?
    override var onchange: ((Event) -> dynamic)?
    override var onclick: ((MouseEvent) -> dynamic)?
    override var onclose: ((Event) -> dynamic)?
    override var oncontextmenu: ((Event) -> dynamic)?
    override var ondblclick: ((MouseEvent) -> dynamic)?
    override var ondrag: ((DragEvent) -> dynamic)?
    override var ondragend: ((DragEvent) -> dynamic)?
    override var ondragenter: ((DragEvent) -> dynamic)?
    override var ondragexit: ((DragEvent) -> dynamic)?
    override var ondragover: ((DragEvent) -> dynamic)?
    override var ondragstart: ((DragEvent) -> dynamic)?
    override var ondrop: ((DragEvent) -> dynamic)?
    override var ondurationchange: ((Event) -> dynamic)?
    override var onemptied: ((Event) -> dynamic)?
    override var onended: ((Event) -> dynamic)?
    override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
    override var onfocus: ((FocusEvent) -> dynamic)?
    override var oninput: ((InputEvent) -> dynamic)?
    override var oninvalid: ((Event) -> dynamic)?
    override var onkeydown: ((KeyboardEvent) -> dynamic)?
    override var onkeypress: ((KeyboardEvent) -> dynamic)?
    override var onkeyup: ((KeyboardEvent) -> dynamic)?
    override var onmousewheel: ((KeyboardEvent) -> dynamic)?
    override var onkeydown: ((KeyboardEvent) -> dynamic)?
    override var onkeypress: ((KeyboardEvent) -> dynamic)?
    override onkeyup: ((KeyboardEvent) -> dynamic)?
    override var onmousedown: ((MouseEvent) -> dynamic)?
    override var onmouseup: ((MouseEvent) -> dynamic)?
    override var onmousemove: ((MouseEvent) -> dynamic)?
    override var onmouseout: ((MouseEvent) -> dynamic)?
    override var onmouseover: ((MouseEvent) -> dynamic)?
    override var onmouseup: ((WheelEvent) -> dynamic)?
    override var onmouseover: ((WheelEvent) -> dynamic)?
    override var onmousemove: ((WheelEvent) -> dynamic)?
/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface TextTrackKind
{
    companion object
}

public inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() = "subtitles".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.CAPTIONS: TextTrackKind get() = "captions".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.DESCRIPTIONS: TextTrackKind get() = "descriptions".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.CHAPTERS: TextTrackKind get() = "chapters".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.METADATA: TextTrackKind get() = "metadata".asDynamic().unsafeCast<TextTrackKind>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface SelectionMode
{
    companion object
}

public inline val SelectionMode.Companion.SELECT: SelectionMode get() = "select".asDynamic().unsafeCast<SelectionMode>()

public inline val SelectionMode.Companion.START: SelectionMode get() = "start".asDynamic().unsafeCast<SelectionMode>()

public inline val SelectionMode.Companion.END: SelectionMode get() = "end".asDynamic().unsafeCast<SelectionMode>()

public inline val SelectionMode.Companion.PRESERVE: SelectionMode get() = "preserve".asDynamic().unsafeCast<SelectionMode>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasFillRule
{
    companion object
}

public inline val CanvasFillRule.Companion.NONZERO: CanvasFillRule get() = "nonzero".asDynamic().unsafeCast<CanvasFillRule>()

public inline val CanvasFillRule.Companion.EVENODD: CanvasFillRule get() = "evenodd".asDynamic().unsafeCast<CanvasFillRule>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineCap
{
    companion object
}

public inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() = "butt".asDynamic().unsafeCast<CanvasLineCap>()

public inline val CanvasLineCap.Companion.ROUND: CanvasLineCap get() = "round".asDynamic().unsafeCast<CanvasLineCap>()

public inline val CanvasLineCap.Companion.SQUARE: CanvasLineCap get() = "square".asDynamic().unsafeCast<CanvasLineCap>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineJoin
{
    companion object
}

public inline val CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() = "round".asDynamic().unsafeCast<CanvasLineJoin>()

public inline val CanvasLineJoin.Companion.BEVEL: CanvasLineJoin get() = "bevel".asDynamic().unsafeCast<CanvasLineJoin>()

public inline val CanvasLineJoin.Companion.MITER: CanvasLineJoin get() = "miter".asDynamic().unsafeCast<CanvasLineJoin>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasTextAlign
{
    companion object
}

public inline val CanvasTextAlign.Companion.START: CanvasTextAlign get() = "start".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.END: CanvasTextAlign get() = "end".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() =
fun get(name: String): String?
fun has(name: String): Boolean
fun set(name: String, value: String) {
    // Implementation logic
}

fun get(name: String): String?
fun has(name: String): Boolean
fun set(name: String, value: String) {
    // Implementation logic
}

fun get(name: String): String?
fun has(name: String): Boolean
fun set(name: String, value: String) {
    // Implementation logic
}

/**
 * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to Kotlin
 * @see public external interface Body {
 *     fun bodyUsed: Boolean
 *     fun arrayBuffer(): Promise<ArrayBuffer>
 *     fun blob(): Promise<Blob>
 *     fun formData(): Promise<FormData>
 *     fun json(): Promise<String>
 *     fun text(): Promise<String>
 * }*
 *
 * @see public external interface Request {
 *     val method: String
 *     val url: String
 *     val headers: Headers
 *     val type: RequestType
 *     val destination: RequestDestination
 *     val open: val referrer: String
 *     @kotlin.internal.InlineOnly fun clone(): Request
 *     override fun arrayBuffer(): Promise<ArrayBuffer>
 *     override fun blob(): Promise<Blob>
 *     override fun formData(): Promise<FormData>
 *     override fun json(): Promise<String>
 *     override fun text(): Promise<String>
 * }*
 *
 * @see public external interface RequestInit {
 *     var method: String
 *     var headers: dynamic
 *     var body: dynamic
 *     var referrer: String
 *     var referrerPolicy: dynamic
 *     var mode: RequestMode
 *     var credentials: RequestCredentials
 *     var cache: RequestCache
 *     var redirect: RequestRedirect
 *     var integrity: String
 *     var keepalive: Boolean
 *     @kotlin.internal.InlineOnly fun clone(): RequestInit
 * }*
 *
 * @see public external companion object {
 *     fun error(): Response
 *     fun redirect(url: String, status: Short): Response
 * }*
 */

fun get(name: String): String?
fun has(name: String): Boolean
fun set(name: String, value: String) {
    // Implementation logic
}

fun get(name: String): String?
fun has(name: String): Boolean
fun set(name: String, value: String) {
    // Implementation logic
}

fun get(name: String): String?
fun has(name: String): Boolean
fun set(name: String, value: String) {
    // Implementation logic
}

/**
 * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to Kotlin
 * @see public external interface Body {
 *     fun bodyUsed: Boolean
 *     fun arrayBuffer(): Promise<ArrayBuffer>
 *     fun blob(): Promise<Blob>
 *     fun formData(): Promise<FormData>
 *     fun json(): Promise<String>
 *     fun text(): Promise<String>
 * }*
 *
 * @see public external interface Request {
 *     val method: String
 *     val url: String
 *     val headers: Headers
 *     val type: RequestType
 *     val destination: RequestDestination
 *     val open: val referrer: String
 *     @kotlin.internal.InlineOnly fun clone(): Request
 *     override fun arrayBuffer(): Promise<ArrayBuffer>
 *     override fun blob(): Promise<Blob>
 *     override fun formData(): Promise<FormData>
 *     override fun json(): Promise<String>
 *     override fun text(): Promise<String>
 * }*
 *
 * @see public external interface RequestInit {
 *     var method: String
 *     var headers: dynamic
 *     var body: dynamic
 *     var referrer: String
 *     var referrerPolicy: dynamic
 *     var mode: RequestMode
 *     var credentials: RequestCredentials
 *     var cache: RequestCache
 *     var redirect: RequestRedirect
 *     var integrity: String
 *     var keepalive: Boolean
 *     @kotlin.internal.InlineOnly fun clone(): RequestInit
 * }*
 *
 * @see public external companion object {
 *     fun error(): Response
 *     fun redirect(url: String, status: Short): Response
 * }*
 */
this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestType {
    companion object
}

public inline val RequestType.Companion.EMPTY: RequestType get() = "".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.AUDIO: RequestType get() = "audio".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.FONT: RequestType get() = "font".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.IMAGE: RequestType get() = "image".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.SCRIPT: RequestType get() = "script".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.STYLE: RequestType get() = "style".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.TRACK: RequestType get() = "track".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.VIDEO: RequestType get() = "video".asDynamic().unsafeCast<RequestType>()

/* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestDestination {
    companion object
}

public inline val RequestDestination.Companion.EMPTY: RequestDestination get() = "".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.DOCUMENT: RequestDestination get() = "document".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.EMBED: RequestDestination get() = "embed".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.FONT: RequestDestination get() = "font".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.IMAGE: RequestDestination get() = "image".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.MANIFEST: RequestDestination get() = "manifest".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.MEDIA: RequestDestination get() = "media".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.OBJECT: RequestDestination get() = "object".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.REPORT: RequestDestination get() = "report".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SCRIPT: RequestDestination get() = "script".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SERVICEWORKER: RequestDestination get() = "serviceworker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SHAREDWORKER: RequestDestination get() = "sharedworker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.STYLE: RequestDestination get() = "style".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.WORKER: RequestDestination get() = "worker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.XSLT: RequestDestination get() = "xslt".asDynamic().unsafeCast<RequestDestination>()

/* please, don't implement this interface!
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestMode {
    companion object
}

public inline val RequestMode.Companion.NAVIGATE: RequestMode get() = "navigate".asDynamic().unsafeCast<RequestMode>()

public inline val RequestMode.Companion.SAME_ORIGIN: RequestMode get() = "same-origin".asDynamic().unsafeCast<RequestMode>()

*
origin".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.NO_CORS: RequestMode get() = "no-cors".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.CORS: RequestMode get() = "cors".asDynamic().unsafeCast<RequestMode>()\n\n/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface RequestCredentials {
    companion object\n\npublic inline val RequestCredentials.Companion.OMIT: RequestCredentials get() = "omit".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = "same-origin".asDynamic().unsafeCast<RequestCredentials>()\n\nRequestCredentials.Companion.INCLUDE: RequestCredentials get() = \ninclude\".asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface RequestCache {
    companion object\n\npublic inline val RequestCache.Companion.DEFAULT: RequestCache get() = "default".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_STORE: RequestCache get() = "no-store".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.RELOAD: RequestCache get() = "reload".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_CACHE: RequestCache get() = "no-cache".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.FORCE_CACHE: RequestCache get() = "force-cache".asDynamic().unsafeCast<RequestCache>()\n\nRequestCache.Companion.OONLY_IF_CACHED: RequestCache get() = "only-if-cached".asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface RequestRedirect {
    companion object\n\npublic inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() = "follow".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.ERROR: RequestRedirect get() = "error".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.MANUAL: RequestRedirect get() = "manual".asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface ResponseType {
    companion object\n\npublic inline val ResponseType.Companion.BASIC: ResponseType get() = "basic".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.CORS: ResponseType get() = "cors".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.DEFAULT: ResponseType get() = "default".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.ERROR: ResponseType get() = "error".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUE: ResponseType get() = "opaque".asDynamic().unsafeCast<ResponseType>()\n\nResponseType.Companion.OPAQUEREDIRECT: ResponseType get() = "opaqueredirect".asDynamic().unsafeCast<ResponseType>()\n\n/* Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */

class MediaStream() : EventTarget {
    constructor(stream: MediaStream)
    constructor(tracks: Array<MediaStreamTrack>)
    open val id: String
    open val active: Boolean
    var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?
    var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?
    fun getAudioTracks(): Array<MediaStreamTrack>
    fun getVideoTracks(): Array<MediaStreamTrack>
    fun getTracks(): Array<MediaStreamTrack>
    fun getTrackById(trackId: String): MediaStreamTrack?
    fun addTrack(track: MediaStreamTrack): MediaStreamTrack
    fun removeTrack(track: MediaStreamTrack): MediaStreamTrack
    fun clone(): MediaStream
}

/**
 * Exposes the JavaScript MediaStreamTrack (https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin
 */
public external abstract class MediaStreamTrack : EventTarget {
    open val kind: String
    open val id: String
    open val label: String
    open var enabled: Boolean
    open val muted: Boolean
    open var onmute: ((Event) -> dynamic)?
    open var onunmute: ((Event) -> dynamic)?
    open val readyState: MediaStreamTrackState
    open var onended: ((Event) -> dynamic)?
    open var onoverconstrained: ((Event) -> dynamic)?
    fun clone(): MediaStreamTrack
    fun stop(): MediaStream
    fun getCapabilities(): MediaTrackCapabilities
    fun getSettings(): MediaTrackSettings
    fun applyConstraints(constraints: MediaTrackSupportedConstraints): Promise<Unit>
}

/**
 * Exposes the JavaScript MediaTrackSupportedConstraints (https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin
 */
public external interface MediaTrackSupportedConstraints {
    var width: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var height: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var resizeMode: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var volume: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var echoCancellation: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var latency: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var deviceId: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var groupId: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}
definedExternally
var echoCancellation: dynamic
    get() = definedExternally
    set(value) = definedExternally

var autoGainControl: dynamic
    get() = definedExternally
    set(value) = definedExternally

var noiseSuppression: dynamic
    get() = definedExternally
    set(value) = definedExternally

var latency: dynamic
    get() = definedExternally
    set(value) = definedExternally

var channelCount: dynamic
    get() = definedExternally
    set(value) = definedExternally

var deviceId: dynamic
    get() = definedExternally
    set(value) = definedExternally

var groupId: dynamic
    get() = definedExternally
    set(value) = definedExternally

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize

    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency

    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/**
 * Exposes the JavaScript
 *[MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin
 */
public external interface MediaTrackSettings {
    var width: Int?
        get() = definedExternally
        set(value) = definedExternally
    var height: Int?
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: Double?
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: Double?
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var resizeMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var volume: Double?
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: Int?
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: Int?
        get() = definedExternally
        set(value) = definedExternally
    var echoCancellation: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var noiseSuppression: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var latency: Double?
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: Int?
        get() = definedExternally
        set(value) = definedExternally
    var deviceId: String?
        get() = definedExternally
        set(value) = definedExternally
    var groupId: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize

    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency

    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/**
 * Exposes the JavaScript
 *[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin
 */
public external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit):
undefined, min: Int? = undefined): ULongRange {
    \n    val o = js("({})")\n    o["max"] = max\n    o["min"] = min\n    return o\n}  \n
public external interface ConstrainULongRange {
    \n    var exact: Int? = undefined
    set(value) = definedExternally\n    get() = definedExternally\n
    var ideal: Int? = undefined
    get() = definedExternally\n    set(value) = definedExternally
}

public external interface ConstrainBooleanParameters {
    \n    var exact: Boolean? = undefined
    set(value) = definedExternally
    get() = definedExternally

    var ideal: Boolean? = undefined
    get() = definedExternally
    set(value) = definedExternally
}

public external interface ConstrainDOMStringParameters {
    \n    var exact: dynamic = undefined
    set(value) = definedExternally
    get() = definedExternally

    var ideal: dynamic = undefined
    get() = definedExternally
    set(value) = definedExternally
}

public external interface Capabilities {
    \n    var advanced: Array<ConstraintSet>? = undefined
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    return o
}

/**
 * Exposes the JavaScript
[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to
Kotlin
*/

@kotlin.internal.InlineOnly
public inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    return o
}

/**
 * Exposes the JavaScript
[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to
Kotlin
*/

@kotlin.internal.InlineOnly
public inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {
    val o = js("({})")
    o["exact"] = exact
    o["ideal"] = ideal
    return o
}

public external interface ConstraintSet {
    \n    var advanced: Array<ConstraintSet>?
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ConstraintSet(advanced: Array<ConstraintSet>? = undefined): ConstraintSet {
    val o = js("({})")
    o["advanced"] = advanced
    return o
}

/* please, don’t implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")

public external interface MediaStreamTrackState {
    \n    companion object
}

public inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>()

public inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = "ended".asDynamic().unsafeCast<MediaStreamTrackState>()

/* please, don’t implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")

public external interface VideoFacingModeEnum {
    \n    companion object
}

public inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = "user".asDynamic().unsafeCast<VideoFacingModeEnum>()


public inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = "left".asDynamic().unsafeCast<VideoFacingModeEnum>()

public inline val VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() = "right".asDynamic().unsafeCast<VideoFacingModeEnum>()

/* please, don’t implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")

public external interface VideoResizeModeEnum {
    \n    companion object
}

public inline val VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() = "none".asDynamic().unsafeCast<VideoResizeModeEnum>()

public inline val VideoResizeModeEnum.Companion.COMPRESSION: VideoResizeModeEnum get() = "compression".asDynamic().unsafeCast<VideoResizeModeEnum>()

public inline val VideoResizeModeEnum.Companion.CROP: VideoResizeModeEnum get() = "crop".asDynamic().unsafeCast<VideoResizeModeEnum>()

public inline val VideoResizeModeEnum.Companion.RESIZE: VideoResizeModeEnum get() = "resize".asDynamic().unsafeCast<VideoResizeModeEnum>()

public inline val VideoResizeModeEnum.Companion.FULL: VideoResizeModeEnum get() = "full".asDynamic().unsafeCast<VideoResizeModeEnum>()

public inline val VideoResizeModeEnum.Companion.CUSTOM: VideoResizeModeEnum get() = "custom".asDynamic().unsafeCast<VideoResizeModeEnum>()
VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum.get() = \"crop-and-scale\".asDynamic().unsafeCast<VideoResizeModeEnum>().\n// please, don't implement this interface!

MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind.get() = \"audioinput\".asDynamic().unsafeCast<MediaDeviceKind>().\n
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind.get() = \"audiooutput\".asDynamic().unsafeCast<MediaDeviceKind>().\n
MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind.get() = \"videoinput\".asDynamic().unsafeCast<MediaDeviceKind>().\n
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composed

return o
}

/**
 * Exposes the JavaScript
 * [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin
 */
public external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {
    open val pointerId: Int
    open val width: Double
    open val height: Double
    open val pressure: Float
    open val tangentialPressure: Float
    open val openVal x: Int
    open val y: Int
    open val twist: Int
    open val pointerType: String
    open val isPrimary: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

/*
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 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
// See github.com/kotlin/dukat for details

package org.w3c.dom.svg

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin
 */
public external abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {
    open val dataset: DOMStringMap
    open val ownerSVGElement: SVGSVGElement?
    open val viewportElement: SVGElement?
    open var tabIndex: Int
    fun focus()
    fun blur()

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface SVGBoundingBoxOptions {
    var fill: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var stroke: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var markers: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var clipped: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["fill"] = fill
    o["stroke"] = stroke
    o["markers"] = markers
    o["clipped"] = clipped
    return o
}

/**
 * Exposes the JavaScript
 * [SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin
 */
public external abstract class SVGGraphicsElement : SVGElement, SVGTests {
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin
 */
public external abstract class SVGGeometryElement {
    open val openNodePathLength:
    fun isPointInFill(point: DOMPoint): Boolean
    fun isPointInStroke(point: DOMPoint):
    fun getTotalLength(): Float
    fun getPointAtLength(distance: Float):
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin
 */
public external class SVGNumber {
    open var value: Float
}

/**
 * Exposes the JavaScript [SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin
 */
public external class SVGLength {
    open val unitType: Short
    open var value: Float
    open var valueInSpecifiedUnits: Float
    open var valueAsString: String
    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)
    fun convertToSpecifiedUnits(unitType: Short)
    companion object {
        val SVG_LENGTHTYPE_UNKNOWN: Short
        val SVG_LENGTHTYPE_NUMBER: Short
        val SVG_LENGTHTYPE_PERCENTAGE: Short
        val SVG_LENGTHTYPE_EMS: Short
        val SVG_LENGTHTYPE_EXS: Short
        val SVG_LENGTHTYPE_CM: Short
        val SVG_LENGTHTYPE_MM: Short
        val SVG_LENGTHTYPE_IN: Short
        val SVG_LENGTHTYPE_PT: Short
        val SVG_LENGTHTYPE_PC: Short
    }
}

/**
 * Exposes the JavaScript [SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin
 */
public external class SVGAngle {
    open val unitType: Short
    open var value: Float
    open var valueInSpecifiedUnits: Float
    open var valueAsString: String
    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)
    fun convertToSpecifiedUnits(unitType: Short)
    companion object {
        val SVG_ANGLETYPE_UNKNOWN: Short
        val SVG_ANGLETYPE_UNSPECIFIED: Short
        val SVG_ANGLETYPE_DEG: Short
        val SVG_ANGLETYPE_RAD: Short
        val SVG_ANGLETYPE_GRAD: Short
    }
}

public external abstract class SVGNameList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: dynamic): dynamic
    fun insertItemBefore(newItem: dynamic, index: Int): dynamic
    fun replaceItem(newItem: dynamic, index: Int): dynamic
    fun removeItem(index: Int): dynamic
    fun appendItem(newItem: dynamic): dynamic
    fun getItem(index: Int): dynamic
}

@kotlin.internal.InlineOnly
public inline fun SVGNameList.get(index: Int): dynamic = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline fun SVGNameList.set(index: Int, newItem: dynamic) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin
 */
public external abstract class SVGLengthList {
    open val length: Int
    open val numberOfItems: Int
    fun clear(): Int
    fun initialize(newItem: SVGLength): Int
    fun insertItemBefore(newItem: SVGLength, index: Int): Int
    fun replaceItem(newItem: SVGLength, index: Int): Int
    fun removeItem(index: Int): SVGLength
    fun appendItem(newItem: SVGLength): SVGLength
    fun getSize(index: Int): Int
    fun get(index: Int): SVGLength?
    fun set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }
}

@kotlin.internal.InlineOnly
public inline fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }

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Kotlin

/*
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGLengthList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: SVGLength): SVGLength
    fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength
    fun replaceItem(newItem: SVGLength, index: Int): SVGLength
    fun removeItem(index: Int): SVGLength
    fun appendItem(newItem: SVGLength): SVGLength
    fun getItem(index: Int): SVGLength
}

@kotlin.internal.InlineOnly
public inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGAnimatedBoolean {
    open var baseVal: Boolean
    open val animVal: Boolean
}

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGAnimatedEnumeration {
    open var baseVal: Short
    open val animVal: Short
}

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGAnimatedInteger {
    open var baseVal: Int
    open val animVal: Int
}

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGAnimatedNumber {
    open var baseVal: Float
    open val animVal: Float
}

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGAnimatedLength {
    open val baseVal: SVGLength
    open val animVal: SVGLength
}

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGAnimatedAngle {
    open val baseVal: SVGAngle
    open val animVal: SVGAngle
}

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGAnimatedString {
    open var baseVal: String
    open val animVal: String
}

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGAnimatedRect {
    open val baseVal: DOMRect
    open val animVal: DOMRectReadOnly
}

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGAnimatedNumberList {
    open val baseVal: SVGNumberList
    open val animVal: SVGNumberList
}

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGAnimatedLengthList {
    open val baseVal: SVGLengthList
    open val animVal: SVGLengthList
}

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

public external abstract class SVGStringList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: String): String
    fun insertItemBefore(newItem: String, index: Int): String
    fun replaceItem(newItem: String, index: Int): String
    fun removeItem(index: Int): String
    fun appendItem(newItem: String): String
    fun getItem(index: Int): String
}

@kotlin.internal.InlineOnly
public inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 * Exposes the JavaScript

 */

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface SVGUnitTypes
{
    companion object {
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val
SVG_UNIT_TYPE_USERSPACEONUSE: Short
val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short
val *Exposes the JavaScript

[SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin

val requiredExtensions: SVGStringList
val systemLanguage: SVGStringList
val *Exposes the JavaScript

[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin

*val @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") *Exposes the JavaScript

**Exposes the JavaScript

[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin

*val *Exposes the JavaScript

[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin

*val *Exposes the JavaScript
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

public external abstract class

SVGUnknownElement : SVGGraphicsElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 * [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin
 */
public external abstract class SVGDefsElement : SVGGraphicsElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 * [SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin
 */
public external abstract class SVGDescElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 * [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin
 */
public external abstract class SVGMetadataElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
 * [SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin
 */
public external abstract class SVGTitleElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
/**
 * Exposes the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin
 */
public external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin
 */
public external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val instanceRoot: SVGElement?
    open val animatedInstanceRoot: SVGElement?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external open class SVGUseElementShadowRoot : ShadowRoot {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface SVGElementInstance {
    val correspondingElement: SVGElement?
        get() = definedExternally
    val correspondingUseElement: SVGUseElement?
        get() = definedExternally
}

/**
 * Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin
 */
public external abstract class SVGSwitchElement : SVGGraphicsElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
public external interface GetSVGDocument {
    fun getSVGDocument(): Document
}

/**
 * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin
 */
public external abstract class SVGStyleElement : SVGElement, LinkStyle {
    open var type: String
    open var media: String
    open var title: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin
 */
public external abstract class SVGTransform {
    open val type: Short
    open val matrix: DOMMatrix
    open val angle: Float
    fun setMatrix(matrix: DOMMatrixReadOnly)
    fun setTranslate(tx: Float, ty: Float)
    fun setScale(sx: Float, sy: Float)
    fun setRotate(angle: Float, cx: Float, cy: Float)
    fun setSkewX(angle: Float)
    fun setSkewY(angle: Float)

    companion object {
        val SVG_TRANSFORM_UNKNOWN: Short
        val SVG_TRANSFORM_MATRIX: Short
        val SVG_TRANSFORM_TRANSLATE: Short
        val SVG_TRANSFORM_SCALE: Short
        val SVG_TRANSFORM_ROTATE: Short
    }
}

/**
 * Exposes the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin
 */
public external abstract class SVGTransformList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: SVGTransform): SVGTransform
    fun insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform
    fun replaceItem(newItem: SVGTransform, index: Int): SVGTransform
    fun removeItem(index: Int): SVGTransform
    fun appendItem(newItem: SVGTransform): SVGTransform
    fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform
    fun consolidate(): SVGTransform?
    fun getItem(index: Int): SVGTransform
}

@kotlin.internal.InlineOnly
public inline operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin
 */
public external abstract class SVGPreserveAspectRatio {
    open var align: Short
    open var meetOrSlice: Short

    companion object {
        val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short
        val SVG_PRESERVEASPECTRATIO_NONE: Short
        val SVG_PRESERVEASPECTRATIO_XMINYMIN: Short
        val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short
        val SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short
        val SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short
        val SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short
        val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short
    }
}
* Exposes the JavaScript

[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspectRatio) to Kotlin

```kotlin
public external abstract class SVGAnimatedPreserveAspectRatio {
    open val baseVal: SVGPreserveAspectRatio
    open val animVal: SVGPreserveAspectRatio
}
```

* Exposes the JavaScript

[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin

```kotlin
public external abstract class SVGPathElement : SVGGeometryElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}
```

* Exposes the JavaScript

[SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin

```kotlin
public external abstract class SVGCircleElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val r: SVGAnimatedLength
}
```

---

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[SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short] val
[SVG_PRESERVEASPECTRATIO_XMINYMIN: Short] val
[SVG_PRESERVEASPECTRATIO_XMIDYMID: Short] val
[SVG_PRESERVEASPECTRATIO_XMAXYMID: Short] val
[SVG_PRESERVEASPECTRATIO_XMINYMID: Short] val
[SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short] val
[SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short] val
[SVG_MEETORSLICE_UNKNOWN: Short] val
[SVG_MEETORSLICE_MEET: Short] val
[SVG_MEETORSLICE_SLICE: Short] val
```
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[SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin

```kotlin
public external abstract class SVGEllipseElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val rx: SVGAnimatedLength
    open val ry: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

[SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin

```kotlin
public external abstract class SVGLineElement : SVGGeometryElement {
    open val x1: SVGAnimatedLength
    open val y1: SVGAnimatedLength
    open val x2: SVGAnimatedLength
    open val y2: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

[SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin

```kotlin
public external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
```

[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin

```kotlin
public external interface SVGAnimatedPoints {
    val points: SVGPointList
    val animatedPoints: SVGPointList
}
```

```kotlin
public external abstract class SVGPointList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: DOMPoint): DOMPoint
    fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint
    fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint
    fun removeItem(index: Int): DOMPoint
    fun appendItem(newItem: DOMPoint): DOMPoint
    fun getItem(index: Int): DOMPoint

    @kotlin.internal.InlineOnly
    public inline operator fun SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]

    @kotlin.internal.InlineOnly
    public inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }
}
```

[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin

```kotlin
public external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {
}
```

[SVPolylineList](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineList) to Kotlin

```kotlin
public external interface SVPolylineList {
    fun insertItemBefore(newItem: DOMPolyPoint, index: Int): DOMPolyPoint
    fun replaceItem(newItem: DOMPolyPoint, index: Int): DOMPolyPoint
    fun removeItem(index: Int): DOMPolyPoint
    fun appendItem(newItem: DOMPolyPoint): DOMPolyPoint
    fun getItem(index: Int): DOMPolyPoint
    fun asDynamic(): [index]@kotlin.internal.InlineOnly?public inline operator fun SVPolylineList.set(index: Int, newItem: DOMPolyPoint) [ asDynamic()[index] = newItem ]
}
```

**Exposes the JavaScript**
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```kotlin
/**
 * Exposes the JavaScript [SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin
 */
public external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {

    companion object {
            val ELEMENT_NODE: Short
            val ATTRIBUTE_NODE: Short
            val TEXT_NODE: Short
            val CDATA_SECTION_NODE: Short
            val ENTITY_REFERENCE_NODE: Short
            val ENTITY_NODE: Short
            val PROCESSING_INSTRUCTION_NODE: Short
            val COMMENT_NODE: Short
            val DOCUMENT_NODE: Short
            val DOCUMENT_TYPE_NODE: Short
            val DOCUMENT_FRAGMENT_NODE: Short
            val NOTATION_NODE: Short
            val DOCUMENT_POSITION_DISCONNECTED: Short
            val DOCUMENT_POSITION_PRECEDING: Short
            val DOCUMENT_POSITION_FOLLOWING: Short
            val DOCUMENT_POSITION_CONTAINS: Short
            val DOCUMENT_POSITION_CONTAINED_BY: Short
            val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

```
Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin

```kotlin
/*
 * Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin
 */
public external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGImageElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val preserveAspectRatio: SVGAnimatedPreserveAspectRatio
    open var crossOrigin: String?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin

```kotlin
/*
 * Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin
 */
public external abstract class SVGForeignObjectElement : SVGGraphicsElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

Exposes the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin

```kotlin
/*
 * Exposes the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin
 */
public external abstract class SVGSolidcolorElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
    }
```
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val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short

val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

* Exposes the JavaScript [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin

/*
 * Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin
 */

/*
 * Exposes the JavaScript [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin
 */

valorval gradientUnits: SVGAnimatedEnumeration
valorval gradientTransform: SVGAnimatedTransformList
valorval spreadMethod: SVGAnimatedEnumeration

companion object {
valorSVG_SPREADMETHOD_UNKNOWN: Short
valorSVG_SPREADMETHOD_PAD: Short
valorSVG_SPREADMETHOD_REFLECT: Short
valorSVG_SPREADMETHOD_REPEAT: Short
valorSVG_UNIT_TYPE_UNKNOWN: Short
valorSVG_UNIT_TYPE_USERSPACEONUSE: Short
valorSVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
valorELEMENT_NODE: Short
valorATTRIBUTE_NODE: Short
valorTEXT_NODE: Short
valorCDATA_SECTION_NODE: Short
valorENTITY_REFERENCE_NODE: Short
valorPROCESSING_INSTRUCTION_NODE: Short
valorDOCUMENT_NODE: Short
valorDOCUMENT_TYPE_NODE: Short
valorDOCUMENT_FRAGMENT_NODE: Short
valorNOTATION_NODE: Short
valorDOCUMENT_POSITION_DISCONNECTED: Short
valorDOCUMENT_POSITION_PRECEDING: Short
valorDOCUMENT_POSITION_FOLLOWING: Short
valorDOCUMENT_POSITION_CONTAINS: Short
valorDOCUMENT_POSITION_CONTAINED_BY: Short

valorDOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}
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```java
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

val SVG_SPREADMETHOD_UNKNOWN: Short
val SVG_SPREADMETHOD_PAD: Short
val SVG_SPREADMETHOD_REFLECT: Short
val SVG_SPREADMETHOD_REPEAT: Short
val SVG_UNIT_TYPE_UNKNOWN: Short
val SVG_UNIT_TYPE_USERSPACEONUSE: Short
val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript
 [SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin
 */
public
```
COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin */
public external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference,
SVGUnitTypes {
    open val patternUnits: SVGAnimatedEnumeration
    open val patternContentUnits: SVGAnimatedEnumeration
    open val patternTransform: SVGAnimatedTransformList
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength

    companion object {
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external abstract class SVGHatchElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external abstract class SVGHatchpathElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin */
public external abstract class SVGCursorElement : SVGElement, SVGURIReference {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val NOTATION_NODE: Short
val DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin
 */
public external abstract class SVGElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGElement {
    open var type: String
    open var crossOrigin: String?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin
 */
public external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {
    open var type: String
    open var crossOrigin: String?

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin
 */
public external abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {
    open val target: SVGAnimatedString
    open val download: SVGAnimatedString
    open val rel: SVGAnimatedString
    open val relList: SVGAnimatedString
    open val hreflang: SVGAnimatedString
    open val type: SVGAnimatedString

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin
 */
public external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {
    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
false): NotificationEventInit { val o = js("({})")
    o["notification"] = notification
    o["action"] = action
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
} /* please, don't implement this interface!

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface NotificationPermission {
    companion object
}

public inline val NotificationPermission.Companion.DEFAULT: NotificationPermission get() = "default".asDynamic().unsafeCast<NotificationPermission>()

public inline val NotificationPermission.Companion.DENIED: NotificationPermission get() = "denied".asDynamic().unsafeCast<NotificationPermission>()

public inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() = "granted".asDynamic().unsafeCast<NotificationPermission>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface NotificationDirection {
    companion object
}

public inline val NotificationDirection.Companion.AUTO: NotificationDirection get() = "auto".asDynamic().unsafeCast<NotificationDirection>()

public inline val NotificationDirection.Companion.LTR: NotificationDirection get() = "ltr".asDynamic().unsafeCast<NotificationDirection>()

public inline val NotificationDirection.Companion.RTL: NotificationDirection get() = "rtl".asDynamic().unsafeCast<NotificationDirection>()
function $\text{matchAll}(\text{request}: \text{dynamic} = \text{definedExternally}, \text{options}: \text{CacheQueryOptions} = \text{definedExternally}): \text{Promise}\langle\text{Array}\langle\text{Response}\rangle\rangle$

function $\text{put}(\text{request}: \text{dynamic}, \text{response}: \text{Response}): \text{Promise}\langle\text{Unit}\rangle$

function $\text{delete}(\text{request}: \text{dynamic}, \text{options}: \text{CacheQueryOptions} = \text{definedExternally}): \text{Promise}\langle\text{Boolean}\rangle$

function $\text{keys}(\text{request}: \text{dynamic} = \text{definedExternally}, \text{options}: \text{CacheQueryOptions} = \text{definedExternally}): \text{Promise}\langle\text{Array}\langle\text{Request}\rangle\rangle$

`CacheQueryOptions` interface:
- `ignoreSearch`: Boolean
- `ignoreMethod`: Boolean
- `ignoreVary`: Boolean
- `cacheName`: String

`CacheBatchOperation` interface:
- `type`: String
- `request`: Request
- `response`: Response
- `options`: CacheQueryOptions

`CacheStorage` class:
- `match\((\text{request}: \text{dynamic}, \text{options}: \text{CacheQueryOptions} = \text{definedExternally})\): \text{Promise}\langle\text{Any}\rangle$
- `has\((\text{cacheName}: \text{String})\): \text{Promise}\langle\text{Boolean}\rangle$
- `open\((\text{cacheName}: \text{String})\): \text{Promise}\langle\text{Cache}\rangle$
- `delete\((\text{cacheName}: \text{String})\): \text{Promise}\langle\text{Boolean}\rangle$
- `keys\(): \text{Promise}\langle\text{Array}\langle\text{String}\rangle\rangle$

The `Cache` class is exposed to Kotlin using the `Cache` interface from the `CacheStorage` class.

`FunctionalEvent` class:
- `NONE`: Short
- `CAPTURING_PHASE`: Short
- `AT_TARGET`: Short

The `ExtendableMessageEventInit` interface:
- `data`: Any?
- `origin`: String?
- `lastEventId`: String?
- `source`: UnionClientOrMessagePortOrServiceWorker?
- `ports`: Array<MessagePort>?
- `bubbles`: Boolean
- `cancelable`: Boolean
- `composed`: Boolean

The `ExtendableMessageEventInit` function is defined as:

```kotlin
fun $\text{match\(request: \text{dynamic}, \text{options}: \text{CacheQueryOptions} = \text{definedExternally}\)\): \text{Promise}\langle\text{Any}\rangle$

fun $\text{matchAll\(request: \text{dynamic} = \text{definedExternally}, \text{options}: \text{CacheQueryOptions} = \text{definedExternally}\)\): \text{Promise}\langle\text{Array}\langle\text{Response}\rangle\rangle$

fun $\text{put\(request: \text{dynamic}, \text{response}: \text{Response}\)\): \text{Promise}\langle\text{Unit}\rangle$

fun $\text{delete\(request: \text{dynamic}, \text{options}: \text{CacheQueryOptions} = \text{definedExternally}\)\): \text{Promise}\langle\text{Boolean}\rangle$

fun $\text{keys\(request: \text{dynamic} = \text{definedExternally}, \text{options}: \text{CacheQueryOptions} = \text{definedExternally}\)\): \text{Promise}\langle\text{Array}\langle\text{Request}\rangle\rangle$
```

The `CacheStorage` class is used to interact with the JavaScript `Cache` interface in Kotlin.
"installed".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() = "activating".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() = "activated".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() = "redundant".asDynamic().unsafeCast<ServiceWorkerState>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface FrameType {
    companion object
}

public inline val FrameType.Companion.AUXILIARY: FrameType get() = "auxiliary".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.TOP_LEVEL: FrameType get() = "top-level".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.NESTED: FrameType get() = "nested".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.NONE: FrameType get() = "none".asDynamic().unsafeCast<FrameType>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ClientType {
    companion object
}

public inline val ClientType.Companion.WINDOW: ClientType get() = "window".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.WORKER: ClientType get() = "worker".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.SHAREDWORKER: ClientType get() = "sharedworker".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.ALL: ClientType get() = "all".asDynamic().unsafeCast<ClientType>()

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// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
// EDIT! See github.com/kotlin/dukat for details

package org.w3c.xhr

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*

/**
 * Exposes the JavaScript
 * XMLHttpRequestEventTarget
 */
public external abstract class XMLHttpRequestEventTarget : EventTarget {
    open var onloadstart: ((ProgressEvent) -> dynamic)?
    open var onprogress: ((ProgressEvent) -> dynamic)?
    open var onabort: ((Event) -> dynamic)?
    open var onerror: ((Event) -> dynamic)?
    open var onload: ((Event) -> dynamic)?
    open var ontimeout: ((Event) -> dynamic)?
    open var onloadend: ((Event) -> dynamic)?
}

public external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget

/**
 * Exposes the JavaScript
 * XMLHttpRequest
 */
public external open class XMLHttpRequest : XMLHttpRequestEventTarget {
    var onreadystatechange: ((Event) -> dynamic)?
    open val readyState: Short
    var timeout: Int
    var withCredentials: Boolean
    open val upload: XMLHttpRequestUpload
    open val responseURL: String?
    open val responseText: String?
    open val responseType: String?
    open val response: Any?
    open val responseXML: Document?
    fun send(body: dynamic = definedExternally)
    fun overrideMimeType(mime: String?)
    fun send(headers: Map<String, String> = definedExternally)
    fun abort()
    fun getAllResponseHeaders(): Array<String>
    fun overrideMimeType(mime: String?)
    fun companion object
}

public class XMLHttpRequestEventTarget {
    constructor()
    constructor(url: String?, async: Boolean = true, timeout: Int = -1)
    constructor(url: String?, method: String?, async: Boolean = true, timeout: Int = -1)
}

public abstract class XMLHttpRequestUpload {
    constructor()
    constructor(xhr: XMLHttpRequest)
}

public class XMLHttpRequest {
    constructor()
    constructor(url: String?, async: Boolean = true, timeout: Int = -1)
    constructor(url: String?, method: String?, async: Boolean = true, timeout: Int = -1)
    constructor(xhr: XMLHttpRequest)
}

public class XMLHttpRequestEventTarget {
    constructor()
    constructor(url: String?, async: Boolean = true, timeout: Int = -1)
    constructor(url: String?, method: String?, async: Boolean = true, timeout: Int = -1)
    constructor(xhr: XMLHttpRequest)
}

public class XMLHttpRequestUpload {
    constructor()
    constructor(xhr: XMLHttpRequest)
}
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16156

[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin

```kotlin
*public external open class FormData(form: HTMLFormElement = definedExternally) {
    fun append(name: String, value: String)
    fun append(name: String, value: Blob, filename: String = definedExternally)
    fun delete(name: String)
    fun get(name: String): dynamic
    fun getAll(name: String): Array<dynamic>
    fun has(name: String): Boolean
    fun set(name: String, value: String)
    fun set(name: String, value: Blob, filename: String = definedExternally)
}

/**
 * Exposes the JavaScript
 [ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin
 */
*public external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {
    open val lengthComputable: Boolean
    open val loaded: Number
    open val total: Number

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

*public external interface ProgressEventInit : EventInit {
    var lengthComputable: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var loaded: Number?
        get() = definedExternally
        set(value) = definedExternally
    var total:
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["lengthComputable"] = lengthComputable
    o["loaded"] = loaded
    o["total"] = total
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}*
```

/* please, don't implement this interface! */
*public external interface XMLHttpRequestResponseType {
    companion object
}

*public inline val XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() = "".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

*public inline val XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() = "arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

*public inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() = "blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

*public inline val XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() = "document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

*public inline val XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() = "json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

*public inline val XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() = "text".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

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 */

```
/*
 * This class is deprecated in favor of a more general approach
 * provided by [RequiresOptIn]/[OptIn]
 */
@Target(ANNOTATION_CLASS)
@Retention(BINARY)
@SinceKotlin("1.2")
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
@Deprecated("Please use RequiresOptIn instead.")
*public annotation class Experimental(val level: Level = Level.ERROR) {
    /**
     * Severity of the diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental aspect
     * of that API either by using [UseExperimental] or by being annotated with the corresponding marker
     */

    *public @Target(ANNOTATION_CLASS)
    *public @Retention(BINARY)
    *public @SinceKotlin("1.2")
    *public @RequireKotlin("1.2.50"
    *public annotation class Experimental(val level: Level = Level.ERROR) {
```
/**
 * Allows to use experimental API denoted by the given markers in the annotated file, declaration, or expression.
 * If a declaration is annotated with [UseExperimental], its usages are *not* required to opt-in to that experimental API.
 * This class is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].
 */

```kotlin
@Target(CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE, TYPEALIAS)
@Retention(SOURCE)
@SinceKotlin("1.2")
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILE_VERSION)
@Deprecated("Please use OptIn instead.", ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))
public annotation class UseExperimental(
    vararg val markerClass: KClass<out Annotation>
)

@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION, TYPEALIAS)
@Retention(BINARY)
internal annotation class WasExperimental(
    vararg val markerClass: KClass<out Annotation>
)
```

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 */

```
package kotlin

import kotlin.annotation.AnnotationTarget.*
import kotlin.experimental.ExperimentalTypeInference

/**
 * Allows to infer generic type arguments of a function from the calls in the annotated function parameter of that function.
 * The calls that affect inference are either members of the receiver type or extensions for that type. The extensions must be themselves annotated with `@BuilderInference`. Example: we declare:
 * ```
 * fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T>
 * ```
 * and use it like:
 * ```
 * val result = sequence {
 * yield("result")
 * }
 * ```
 * Here the type argument of the resulting sequence is inferred to `String` from `"result"`.
 * This annotation marks the standard library API that is considered experimental and is not subject to the
 * 
 * - `@Experimental` annotation marks the standard library API that is considered experimental and is not subject to the
 * - The behavior of such API may be changed or the API may be removed completely in any further release.
 * - `@Supress("DEPRECATION")` annotation is used to opt-out of the deprecation warning.
 * - `@OptIn` annotation allows to opt-in to the experimental API.
 * - `@RequiresOptIn` annotation is used to opt-in to the experimental API.
 * - `@OptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@OptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
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 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
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 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
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 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@OptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@OptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@OptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
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 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
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 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
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 * - `@OptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@RequiresOptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@OptIn("markerClass")` allows to opt-in to the experimental API.
 * - `@RequiresOptIn("markerCl
Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by
* annotating
  that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,
* or by using the compiler argument `--Xopt-in=kotlin.ExperimentalMultiplatform`.

*\@Suppress("DEPRECATION")\@Experimental\@RequiresOptIn\@MustBeDocumented\@Target(\n
CLASS,\@ANNOTATION_CLASS,\@PROPERTY,\@FIELD,\@LOCAL_VARIABLE,\@VALUE_PARAMETER,\n
CONSTRUCTOR,\@FUNCTION,\@PROPERTY_GETTER,\@PROPERTY.Setter,\@TYPEALIAS)\n\@Retention(\n
AnnotationRetention.BINARY)\n\@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILED_VERSION)\n\@public annotation class ExperimentalMultiplatform\n
* Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.

* An annotation is only applicable to 'expect' annotation classes in multi-platform projects and marks that class as
  "optional".

* Optional expected class is allowed to have no corresponding actual class on the platform. Optional
  annotations can only be used *to annotate something* not as types in signatures. If an optional annotation has no
  corresponding actual class on a platform, * the annotation entries where it's used are simply erased when
  compiling code on that platform.

* Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in for it.

*\@Target(\n
ANNOTATION_CLASS)\n\@Retention(\n
AnnotationRetention.BINARY)\n\@ExperimentalMultiplatform\n
\@m@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILED_VERSION)\n\@public annotation class OptionalExpectation\n
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  license/LICENSE.txt file.

*\@package kotlin\@n
\@import kotlin.annotation.AnnotationRetention.BINARY\n\@import kotlin.annotation.AnnotationRetention.SOURCE\n\@import kotlin.annotation.AnnotationTarget.*\n\@import kotlin.internal.RequireKotlin\n\@import kotlin.internal.RequireKotlinVersionKind\n
* \@public enum class Level {

    * WARNING, \n    * ERROR,

* \@public class RequiresOptIn {

    * \@vararg val markerClass:

* \@public annotation class OptIn (\n
    * \@vararg val markerClass:

* \@public enum class Level {

    * WARNING, \n    * ERROR,

* \@public class RequiresOptIn {

    * \@vararg val markerClass:

* \@public annotation class OptIn (\n
    * \@vararg val markerClass:

* \@public enum class Level {

    * WARNING, \n    * ERROR,
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)
AbstractMutableList<E> {
    private var head: Int = 0
    private var elementData: Array<Any?>

    override
    var size: Int = 0
        private set

    /**
     * Constructs an empty deque.
     * @throws [IllegalArgumentException] if [initialCapacity] is negative.
     */
    public constructor(initialCapacity: Int) {
        elementData = emptyElementData
    }

    /**
     * Constructs a deque that contains the same elements as the specified [elements] collection in the same order.
     */
    public constructor(elements: Collection<E>) {
        elementData = elements.toTypedArray()
    }

    /**
     * Ensures that the capacity of this deque is at least equal to the specified [minCapacity].
     * Otherwise, this method takes no action and simply returns.
     */
    private fun ensureCapacity(minCapacity: Int) {
        if (minCapacity < 0) throw IllegalStateException("Deque is too big.")
        if (minCapacity <= elementData.size)
            return
        if (elementData === emptyElementData) {
            elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))
            return
        }

        val newCapacity = newCapacity(elementData.size, minCapacity)
        copyElements(newCapacity)
    }

    // made internal for testing
    internal fun newCapacity(oldCapacity: Int, minCapacity: Int): Int {
        // overflow-conscious
        var newCapacity = oldCapacity + (oldCapacity shr 1)
        if (newCapacity - minCapacity < 0)
            newCapacity = minCapacity
        if (newCapacity - maxArraySize > 0)
            newCapacity = if (minCapacity > maxArraySize) Int.MAX_VALUE else maxArraySize
        return newCapacity
    }

    private fun copyElements(newCapacity: Int) {
        val newElements = arrayOfNulls<Any?>(newCapacity)
        elementData.copyInto(newElements, 0, head, elementData.size)
        elementData.copyInto(newElements, elementData.size - head, 0, head)
        head = 0
        elementData = newElements
    }

    @kotlin.internal.InlineOnly
    private inline fun internalGet(internalIndex: Int): E {
        @Suppress("UNCHECKED_CAST")
        return elementData[internalIndex] as E
    }

    private fun positiveMod(index: Int): Int = if (index >= elementData.size) index - elementData.size else index

    private fun negativeMod(index: Int): Int = if (index < 0) index + elementData.size else index

    @kotlin.internal.InlineOnly
    private inline fun internalIndex(index: Int): Int = positiveMod(head + index)

    private fun incremented(index: Int): Int = if (index == elementData.lastIndex) 0 else index + 1

    private fun decremented(index: Int): Int = if (index == 0) elementData.lastIndex else index - 1

    override fun isEmpty(): Boolean = size == 0

    /**
     * Returns the first element, or throws [NoSuchElementException] if this deque is empty.
     */
    public fun first(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(head)

    /**
     * Returns the first element, or `null` if this deque is empty.
     */
    public fun firstOrNull(): E? = if (isEmpty()) null else internalGet(head)

    /**
     * Prepends the specified [element] to this deque.
     */
    public fun addFirst(element: E) {
        ensureCapacity(size + 1)

        head = decremented(head)
        elementData[head] = element
        size += 1
    }

    /**
     * Appends the specified [element] to this deque.
     */
    public fun addLast(element: E) {
        ensureCapacity(size + 1)
        elementData[size] = element
        size += 1
    }

    /**
     * Removes the first element from this deque and returns that removed element, or throws [NoSuchElementException] if this deque is empty.
     */
    public fun removeFirst(): E {
        if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")

        val element = internalGet(head)
        elementData[head] = null
        head = incremented(head)
        size -= 1
        return element
    }

    /**
     * Removes the first element from this deque and returns that removed element, or returns `null` if this deque is empty.
     */
    public fun removeFirstOrNull(): E? = if (isEmpty()) null else
removeFirst() removeLast() * Removes the last element from this deque and returns that removed element, or throws [NoSuchElementException] if this deque is empty.

 ELEMENT_COUNT removeFirstOrNull() removeLastOrNull() E? asList() emptyIfNull() isEmpty() * public abstract override fun removeLast(): E?

 isLastOrNull() // if (isLastOrNull()) throw NoSuchElementException("ArrayDeque is empty.")

 val internalLastIndex = internalIndex(lastIndex)

 val element = internalGet(internalLastIndex)

 elementData[internalLastIndex] = null

 size -= 1

 return element

 }*/

 * Removes the last element from this deque and returns that removed element, or returns 'null' if this deque is empty.

 * public abstract override fun removeLastOrNull(): E? asList() emptyIfNull() isEmpty() *

 // ModifiableList, MutableCollection

 public override fun add(element: E): Boolean {

 addLast(element) return true

 }
this.isEmpty() \n\n* Returns this array if it's not empty \n* or the result of calling [defaultValue] function if the \narray is empty. \n* @sample samples.collections.Arrays.Usage

/*An@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY\"")\nunpublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R \nif (isNotEmpty()) \ndefaultValue() else

this\n\n@UseExperimental(ExperimentalUnsignedTypes::class)\n@SinceKotlin(\"1.3\")\n@PublishedApi\n\n/**
 * Returns this array if it's not empty
 * or the result of calling [defaultValue] function if
 * this size != other size return false\n for (i in indices) \nval v1 = this[i] \nval v2 = other[i] \nif (v1 == null || v2 == null) \nreturn false \nelse if (v1 == null && v2 == null) \nreturn false

when \n| v1 is Array<*> & v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return false \nv1 is ShortArray & v2 is ShortArray -> if (!v1.contentEquals(v2)) return false \nv1 is IntArray & v2 is IntArray -> if (!v1.contentEquals(v2)) return false \nv1 is Array<*> & v2 is Array<*> -> if (v1 === v2) \ncontinue

@UseExperimental(ExperimentalUnsignedTypes::class)
@PublishedApi
@kotlin.jvm.JvmName("contentDeepToString")
@kotlin.js.JsName("contentDeepToStringImpl")
internal fun <T> Array<out T>.contentDeepToStringImpl(): String {
val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not to overflow Int.MAX_VALUE
return buildString(length) {
contentDeepToStringInternal(this, mutableListOf())
}
}

@UseExperimental(ExperimentalUnsignedTypes::class)
private fun <T> Array<out T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {
if (this in processed) {
result.append("[...]")
return
}
processed.add(this)
for (i in indices) {
if (i != 0) {
result.append(", ")
}
val element = this[i] \nwhen (element) {
null -> result.append("null")
Array<*> -> if (v1 !== v2) \nresult.append(element.contentDeepToString())
Array<out T> -> result.append(element.contentDeepToString())
result.append(element.contentDeepToString())
}
}

result.append(element.contentDeepToString())
if (result.isEmpty()) return result.append("[]")

processed.removeAt(processed.lastIndex)
result.append(element.contentDeepToString())
if (result.isEmpty()) return result.append("[]")

processed.removeAt(processed.lastIndex)
result.append(element.contentDeepToString())
if (result.isEmpty()) return result.append("[]")
can be found in the license/LICENSE.txt file.

package kotlin.collections

import kotlin.reflect.KProperty

@file:kotlin.jvm.JvmName("MapsKt")

@file:kotlin.jvm.JvmMultifileClass

public inline operator fun <V, V1 : V> Map<in String, @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =
    @Suppress("UNCHECKED_CAST") (getOrImplicitDefault(property.name) as V1)

/**
 * Returns the value for the given key, or the implicit default value for this map.
 * By default no implicit value is provided for maps and a [NoSuchElementException] is thrown.
 * To create a map with implicit default value use [withDefault] method.
 * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.

 * [defaultValue]
 */

public fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =
    when (this) {
        is MapWithDefault ->
            this.map.withDefault(defaultValue)
        else -> MapWithDefaultImpl(this, defaultValue)
    }

/**
 * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].
 * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.

 * [defaultValue]
 */

@kotlin.jvm.JvmName("withDefaultMutable")

public fun <K, V>
MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =

    when (this) {
        is
        MutableMapWithDefault -> this.map.withDefault(defaultValue)
        else -> MutableMapWithDefaultImpl(this, defaultValue)
    }

private interface MapWithDefault<K, V> : Map<K, V> {
    fun getOrImplicitDefault(key: K): V
}

private interface MutableMapWithDefault<K, V> : MutableMap<K, V>, MapWithDefault<K, V> {
    override fun override fun equals(other: Any?): Boolean = map.equals(other)
    override fun override fun hashCode(): Int = map.hashCode()
    override fun override getOrDefault(key: K, defaultValue: (key: K) -> V): V = map.getOrElseNullable(key, defaultValue)
}

private class MapWithDefaultImpl<K, V>(public override val map: Map<K, V>, private val default: (key: K) -> V) : MapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun getOrDefault(key: K, defaultValue: (key: K) -> V): V = map.getOrElseNullable(key, defaultValue)
}

private class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun getOrDefault(key: K, defaultValue: (key: K) -> V): V = map.getOrElseNullable(key, defaultValue)
}

/*
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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

package kotlin.collections

import kotlin.random.Random

/**
 * Removes a single instance of the specified element from this collection, if it is present.
 * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`.
 * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.
 * @suppress("UNCHECKED_CAST")
 */
@kotlin.internal.InlineOnly
public inline fun <T> MutableCollection<out T>.remove(element: T): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).remove(element)

/**
 * Removes all of the given `elements` collection from this.
 * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.
 * @suppress("UNCHECKED_CAST")
 */
@kotlin.internal.InlineOnly
public inline fun <T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).removeAll(elements)

/**
 * Retains only the elements in this collection that are contained in the specified collection.
 * Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.
 * @return `true` if any element was removed from the collection, `false` if the collection was not modified.
 */
@kotlin.internal.InlineOnly
public inline fun <T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).retainAll(elements)

/**
 * Adds the specified `element` to this mutable collection.
 * @return `true` if any element was added to the collection, `false` if the collection was not modified.
 */
@kotlin.internal.InlineOnly
public inline fun <T> MutableCollection<out T>.add(element: T): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).add(element)

/**
 * Adds all elements of the given `elements` collection to this mutable collection.
 * @return `true` if any element was added to the collection, `false` if the collection was not modified.
 */
@kotlin.internal.InlineOnly
public inline fun <T> MutableCollection<out T>.addAll(elements: Iterable<T>): Boolean =
    (this as MutableCollection<T>).addAll(elements)
[elements] array to this mutable collection.

```kotlin
/**
 * Returns a single instance of the specified [element] from this mutable
collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(element: T): Boolean {
    return remove(element)
}
```

```kotlin
/**
 * Removes all elements contained in the given [elements] sequence from this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Sequence<T>): Boolean {
    val set = elements.toHashSet()
    return set.isNotEmpty() && removeAll(set)
}
```

```kotlin
/**
 * Removes all elements contained in the given [elements] array from this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<out T>): Boolean {
    if (elements.isNotEmpty())
        return removeAll(elements.toHashSet())
    else
        return retainNothing()
}
```

```kotlin
/**
 * Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.
 */
public fun <T> MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {
    val set = elements.toHashSet()
    if (set.isNotEmpty())
        return retainAll(set)
    else
        return retainNothing()
}
```

```kotlin
private fun <T> MutableCollection<*>.retainNothing(): Boolean {
    val result = isNotEmpty()
    clear()
    return result
}
```

```kotlin
/**
 * Removes all elements from this [MutableCollection] that match the given [predicate].
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean {
    return filterInPlace(predicate, true)
}
```

```kotlin
/**
 * Retains only elements of this [MutableIterable] that match the given [predicate].
 *
 * @return `true` if any element was removed from this collection, or `false` when all
 * elements were retained and collection was not modified.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean {
    return filterInPlace(predicate, false)
}
```

```kotlin
MutableIterable<T>.retainAll(predicate: (T) -> Boolean) = filterInPlace(predicate, false)
```
var result = false
    with(iterator()) {
        while (hasNext())
            if (predicate(next()) ==
                predicateResultToRemove) {
                remove()
                result = true
            }
        }
        return result
    }
    return

/**
 * Returns a new list with the elements of this list randomly shuffled.
 */
@SinceKotlin("1.3")
public fun <T> MutableList<T>.shuffled(random: Random): List<T> = toMutableList().apply {
    shuffle(random)
}

/**
 * Removes the element at the specified [index] from this list.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T> MutableList<T>.remove(index: Int): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else removeAt(0)

/**
 * Removes the first element from this mutable list and returns that removed element, or returns `null` if this list is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T> MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)

/**
 * Removes all elements from this [MutableList] that match the given [predicate].
 *
 * @return `true` if any element was removed from this collection, or `false` when no elements were removed and collection was not modified.
 */
public fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)

/**
 * Retains only elements of this [MutableList] that match the given [predicate].
 *
 * @return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not modified.
 */
public fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)

private fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {
    if (this !is RandomAccess)
        return (this as
            MutableList).filterInPlace(predicate, predicateResultToRemove)

    var writeIndex: Int = 0
    for (readIndex in 0..lastIndex) {
        val element = this[readIndex]
        if (predicate(element) ==
            predicateResultToRemove)
            continue

        if (writeIndex != readIndex)
            this[writeIndex] = element

        writeIndex++
    }
    if (writeIndex < size) {
        for (removeIndex in lastIndex downTo
            writeIndex)
            removeAt(removeIndex)
        return true
    } else {
        return false
    }
}

/**
 * Randomly shuffles elements in this mutable list using the specified [random] instance as the source of randomness.
 */
@SinceKotlin("1.3")
public fun <T> MutableList<T>.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

private class ReversedListReadOnly<out T>(private val delegate: List<T>) : AbstractList<T>() {
    override val size: Int get() = delegate.size
    override fun get(index: Int): T = delegate[reverseElementIndex(index)]
}

private class ReversedList<T>(private val delegate: MutableList<T>) : AbstractMutableList<T>() {
    override val size: Int get() = delegate.size
    override fun get(index: Int): T = delegate[reverseElementIndex(index)]

    override fun clear() = delegate.clear()
    override fun removeAt(index: Int): T = delegate.removeAt(index)
    override fun removeFirst(): T = delegate.removeFirst()
    override fun removeLast(): T = delegate.removeLast()
    override fun removeFirstOrNull(): T? = delegate.removeFirstOrNull()
    override fun removeLastOrNull(): T? = delegate.removeLastOrNull()

    override fun filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {
        var writeIndex = 0
        for (readIndex in 0..lastIndex) {
            val element = delegate[readIndex]
            if (predicate(element) ==
                predicateResultToRemove)
                continue

            if (writeIndex != readIndex)
                delegate[writeIndex] = element

            writeIndex++
        }
        if (writeIndex < size) {
            for (removeIndex in lastIndex downTo
                writeIndex)
                delegate.removeAt(removeIndex)
            return true
        } else {
            return false
        }
    }

    override fun shuffle(random: Random): Unit {
        for (i in lastIndex downTo 1) {
            val j = random.nextInt(i + 1)
            val copy = delegate[i]
            delegate[i] = delegate[j]
            delegate[j] = copy
        }
    }
}
delegate.add(reversePositionIndex(index), element)

private fun List<*>.reverseElementIndex(index: Int) =
    if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException("Element index $index must be in range [${0..lastIndex}].")

private fun List<*>.reversePositionIndex(index: Int) =
    if (index in 0..size) size - index else throw IndexOutOfBoundsException("Position index $index must be in range [${0..size}].")

/**
 * Returns a reversed read-only view of the original List.
 * All changes made in the original list will be reflected in the reversed one.
 * @sample sample.collections.ReversedLists.asReversedList
 */
public fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)

/**
 * Returns a reversed mutable view of the original mutable List.
 * All changes made in the original list will be reflected in the reversed one and vice versa.
 * @sample sample.collections.ReversedLists.asReversedMutableList
 */
@kotlin.jvm.JvmName("asReversedMutable")
public fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)

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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SequencesKt")
@file:UseExperimental(ExperimentalTypeInference::class)
import kotlin.sequences.*
import kotlin.coroutines.*
import kotlin.coroutines.intrinsics.*
import kotlin.experimental.ExperimentalTypeInference

/**
 * Builds a [Sequence] lazily yielding values one by one.
 * @sample sample.collections.Sequences.Building.buildSequence
 * @sample sample.collections.Iterables.Building.iterable
 */
@SinceKotlin("1.3")
public fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence {
    iterator(block)
}

@SinceKotlin("1.3")
@Deprecated("Use 'sequence { }' function instead.", ReplaceWith("sequence(builderAction)"), level = DeprecationLevel.ERROR)
public inline fun <T> buildSequence(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence { iterator(builderAction) }

/**
 * Builds an [Iterator] lazily yielding values one by one.
 * @sample sample.collections.Sequences.Building.buildIterator
 * @sample sample.collections.Iterables.Building.iterable
 */
@SinceKotlin("1.3")
public fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Iterator<T> = iterator(block)

/**
 * Yields a value to the [Iterator] being built and suspends until the next value is requested.
 * @sample sample.collections.Sequences.Building.buildSequence
 */
@SinceKotlin("1.3")
public fun <T> buildIterator(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Iterator<T> = iterator(builderAction)

/**
 * Yields potentially infinite sequence of values to the [Iterator] being built and suspends until all these values are iterated and the next one is requested.
 * The sequence of values returned by the given iterator can be potentially infinite.
 * @sample sample.collections.Sequences.Building.buildSequence
 */
@RestrictsSuspension
@SinceKotlin("1.3")
public abstract class SequenceScope<T> internal constructor() {
    /**
     * Yields a value to the [Iterator] being built and suspends until the next value is requested.
     * @sample sample.collections.Sequences.Building.buildSequence
     */
    public abstract suspend fun yield(value: T)

    /**
     * Yields all values from the `iterator` to the [Iterator] being built and suspends until all these values are iterated and the next one is requested.
     */
    public abstract suspend fun yieldAll(iterator: Iterator<T>)

    /**
     * Yields potentially infinite sequence of values to the [Iterator]
     */
    public abstract suspend fun yieldAll(elements: Iterable<T>)
}
being built and suspends until all these values are iterated and the next one is requested.

The sequence can be potentially infinite.

@sample

samples.collections.Sequences.Building.buildSequenceYieldAll

*An public suspend fun yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())

@Deprecated("Use SequenceScope class instead.", ReplaceWith("SequenceScope<T>"), level = DeprecationLevel.ERROR)

public typealias SequenceBuilder<T> = SequenceScope<T>

private typealias State = Int

private const val State_NotReady: State = 0
private const val State_ManyNotReady: State = 1
private const val State_ManyReady: State = 2
private const val State_Ready: State = 3
private const val State_Done: State = 4
private const val State_Failed: State = 5

private class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {

private var state = State_NotReady
private var nextValue: T? = null
private var nextIterator: Iterator<T>? = null

override fun hasNext(): Boolean {
    while (true) {
        when (state) {
            State_NotReady -> {}
            State_ManyNotReady ->
                if (nextIterator!!.hasNext()) {
                    state = State_ManyReady
                    return true
                }
            else {
                nextIterator = null
                if (nextStep != null) override fun hasNext(): Boolean {
                    when (state) {
                        State_NotReady, State_ManyReady -> return false
                        State_ManyReady -> return true
                        State_Ready, State_ManyReady -> return true
                        else -> throw exceptionalState()
                    }
                }

            else -> throw exceptionalState()
        }

        state = State_Failed
        val step = nextStep!!
        nextStep = null
        step.resume(Unit)
    }
}

@Suppress("UNCHECKED_CAST")

private fun exceptionalState(): Throwable = when (state) {
    State_Done -> NoSuchElementException()
    State_Failed -> IllegalArgumentException("Iterator has failed.")
    else -> IllegalArgumentException("Unexpected state of the iterator: $state")
}

override suspend fun yield(value: T) {
    nextValue = value
    state = State_Ready
    return suspendCoroutineUninterceptedOrReturn { c ->
        nextStep = c
        COROUTINE_SUSPENDED
    }
}

override suspend fun yieldAll(iterator: Iterator<T>) {
    if (!iterator.hasNext()) return
    nextIterator = iterator
    state = State_ManyReady
    return suspendCoroutineUninterceptedOrReturn { c ->
        nextStep = c
        COROUTINE_SUSPENDED
    }
}

// Completion continuation implementation
override fun resumeWith(result: Result<Unit>) {
    result.getOrThrow() // just rethrow exception if it is there
    state = State_Done
}

override val context: CoroutineContext
    get() = EmptyCoroutineContext
}

internal fun checkWindowSizeStep(size: Int, step: Int) {
    require(size > 0 && step > 0) {
        if (size != step)
            "Both size $size and step $step must be greater than zero."
        else
            "size $size must be greater than zero."
    }
}

    checkWindowSizeStep(size, step)
    return Sequence {
        windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }
}

    if (!iterator.hasNext()) return EmptyIterator
    @Suppress("UNCHECKED_CAST")
    return iterator<List<T>> {
        val bufferInitialCapacity = size.coerceAtMost(1024)
        var buffer = ArrayList<T>(bufferInitialCapacity)
        var step = 0
        for (e in iterator) {
            var skip = 0
            if (buffer.size == size) {
                if (buffer.isEmpty()) {
                    buffer = ArrayList<T>(bufferInitialCapacity)
                }
                buffer.add(e)
                if (buffer.size == size) {
                    yield(buffer)
                    if (buffer.isEmpty()) {
                        buffer = RingBuffer<T>(bufferInitialCapacity)
                    }
                    buffer.add(e)
                    if (buffer.isFull()) {
                        buffer = ArrayList<T>(bufferInitialCapacity)
                    }
                }
            }
            if (buffer.isEmpty()) {
                buffer = ArrayList<T>(bufferInitialCapacity)
            }
            buffer.add(e)
            buffer.add(e)
        }
    }
}

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buffer.expanded(maxCapacity = size); continue }

yield(if (reuseBuffer) buffer else
ArrayList(buffer))

buffer.removeFirst(step)  

if (buffer.isEmpty()) yield(buffer)

}

while (buffer.size > step)  

yield(if (reuseBuffer) buffer else ArrayList(buffer))

buffer.removeFirst(step)

if (buffer.isEmpty()) yield(buffer)

@internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E> {

RandomAccess {

private fun fromIndex: Int = 0

private var _size: Int = 0

fun move(fromIndex: Int, toIndex: Int) {

subList(fromIndex, toIndex, list.size)

@Suppress("UNCHECKED_CAST")

setNext(buffer[index] as T)

}

override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {

private var count

override fun get(index: Int): T {

checkElementIndex(index, _size)

return @Suppress("UNCHECKED_CAST")

buffer[index] as T

}

override val size: Int get() = _size
}

internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {

private fun fromIndex: Int = 0

private var _size: Int = 0

fun move(fromIndex: Int, toIndex: Int) {

subList(fromIndex, toIndex, list.size)

@Suppress("UNCHECKED_CAST")

setNext(buffer[index] as T)

}

override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {

private var count

override fun get(index: Int): T {

checkElementIndex(index, _size)

return @Suppress("UNCHECKED_CAST")

buffer[index] as T

}

override val size: Int get() = _size
}

internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {

private fun fromIndex: Int = 0

private var _size: Int = 0

fun move(fromIndex: Int, toIndex: Int) {

subList(fromIndex, toIndex, list.size)

@Suppress("UNCHECKED_CAST")

setNext(buffer[index] as T)

}

override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {

private var count

override fun get(index: Int): T {

checkElementIndex(index, _size)

return @Suppress("UNCHECKED_CAST")

buffer[index] as T

}

override val size: Int get() = _size
}

internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {

private fun fromIndex: Int = 0

private var _size: Int = 0

fun move(fromIndex: Int, toIndex: Int) {

subList(fromIndex, toIndex, list.size)

@Suppress("UNCHECKED_CAST")

setNext(buffer[index] as T)

}

override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {

private var count

override fun get(index: Int): T {

checkElementIndex(index, _size)

return @Suppress("UNCHECKED_CAST")

buffer[index] as T

}

override val size: Int get() = _size
}

internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {

private fun fromIndex: Int = 0

private var _size: Int = 0

fun move(fromIndex: Int, toIndex: Int) {

subList(fromIndex, toIndex, list.size)

@Suppress("UNCHECKED_CAST")

setNext(buffer[index] as T)

}

override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {

private var count

override fun get(index: Int): T {

checkElementIndex(index, _size)

return @Suppress("UNCHECKED_CAST")

buffer[index] as T

}

override val size: Int get() = _size
}

internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {

private fun fromIndex: Int = 0

private var _size: Int = 0

fun move(fromIndex: Int, toIndex: Int) {

subList(fromIndex, toIndex, list.size)

@Suppress("UNCHECKED_CAST")

setNext(buffer[index] as T)

}

override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {

private var count

override fun get(index: Int): T {

checkElementIndex(index, _size)

return @Suppress("UNCHECKED_CAST")

buffer[index] as T

}

override val size: Int get() = _size
}

internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {

private fun fromIndex: Int = 0

private var _size: Int = 0

fun move(fromIndex: Int, toIndex: Int) {

subList(fromIndex, toIndex, list.size)

@Suppress("UNCHECKED_CAST")

setNext(buffer[index] as T)

}

override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {

private var count

override fun get(index: Int): T {

checkElementIndex(index, _size)

return @Suppress("UNCHECKED_CAST")

buffer[index] as T

}

override val size: Int get() = _size
}

internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {

private fun fromIndex: Int = 0

private var _size: Int = 0

fun move(fromIndex: Int, toIndex: Int) {

subList(fromIndex, toIndex, list.size)

@Suppress("UNCHECKED_CAST")

setNext(buffer[index] as T)

}

override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {

private var count

override fun get(index: Int): T {

checkElementIndex(index, _size)

return @Suppress("UNCHECKED_CAST")

buffer[index] as T

}

override val size: Int get() = _size
}

internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {

private fun fromIndex: Int = 0

private var _size: Int = 0

fun move(fromIndex: Int, toIndex: Int) {

subList(fromIndex, toIndex, list.size)

@Suppress("UNCHECKED_CAST")

setNext(buffer[index] as T)

}

override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {

private var count

override fun get(index: Int): T {

checkElementIndex(index, _size)

return @Suppress("UNCHECKED_CAST")

buffer[index] as T

}

override val size: Int get() = _size
}

internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {

private fun fromIndex: Int = 0

private var _size: Int = 0

fun move(fromIndex: Int, toIndex: Int) {

subList(fromIndex, toIndex, list.size)

@Suppress("UNCHECKED_CAST")

setNext(buffer[index] as T)

}

override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {

private var count

override fun get(index: Int): T {

checkElementIndex(index, _size)

return @Suppress("UNCHECKED_CAST")

buffer[index] as T

}

override val size: Int get() = _size
}
array[j] = tmp
        i++
        j--
    }
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: UByteArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// UShortArray
=============================================================================
@ExperimentalUnsignedTypes
private fun partition(
    array: UShortArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: UShortArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// UIntArray
=============================================================================
@ExperimentalUnsignedTypes
private fun partition(
    array: UIntArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: UIntArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// ULongArray
=============================================================================
@ExperimentalUnsignedTypes
private fun partition(
    array: ULongArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: ULongArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

/**
 * Sorts the given array using qsort algorithm.
 */
@ExperimentalUnsignedTypes
internal fun sortArray(array: UByteArray) = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: UShortArray) = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: UIntArray) = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: ULongArray) = quickSort(array, 0, array.size - 1)

// Interfaces
=============================================================================

/*
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 */

package kotlin.contracts

import kotlin.internal.ContractsDsl
import kotlin.internal.InlineOnly

/**
 * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc., can be used to
describe the contract of a function.

 * This type is used as a receiver type of the lambda function passed to the
[contract] function.

 * @see [contract]
 */
@ContractsDsl
@Intersection
@Experimental
@MustBeDocumented
public interface ContractBuilder {
    /**
     * Describes a situation when a function returns normally, without any exceptions thrown.
     */
    /*
[SimpleEffect.implies] function to describe a conditional effect that happens in such case.

```kotlin
/*
 * @sample samples.contracts.returnsContract
  @ContractsDsl public fun returns(): Returns
 /**
 * Describes a situation when a function returns normally with the specified return [value].
 */

@sample samples.contracts.returnsFalseContract // @sample samples.contracts.returnsNullContract
@ContractsDsl public fun returns(value: Any?): Returns

/**
 * Describes a situation when a function returns normally with the specified return [value].
 *
 * The possible values of [value] are limited to `true`, `false` or `null`.
 */

@sample samples.contracts.returnsNotNullContract
@ContractsDsl public fun returnsNotNull(): ReturnsNotNull

```
@SinceKotlin("1.3")
public interface ContinuationInterceptor : CoroutineContext.Element {
    /**
     * The key that defines *the* context interceptor.
     */
    companion object Key :
        CoroutineContext.Key<ContinuationInterceptor> /*
     * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.
     */
        @SinceKotlin("1.3")
        public interface ContinuationInterceptor : CoroutineContext.Element {
            /**
             * @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.
             */
            public fun releaseInterceptedContinuation(continuation: Continuation<*>): Continuation<*>?

                // getPolymorphicKey specialized for ContinuationInterceptor key
                @OptIn(ExperimentalStdlibApi::class)
                if (key is AbstractCoroutineContextKey<*, *> && key !== ContinuationInterceptor) {
                    return if (key.isSubKey(this.key)) key.tryCast(this) as? E else
                        null
                }
                @Suppress("UNCHECKED_CAST")
                return if (ContinuationInterceptor === key) this as E else
                    null
        }
}

@SinceKotlin("1.3")
public interface CoroutineContext {
    /**
     * Returns the element with the given [key] from this context or `null`.
     */
    public operator fun <E : Element> get(key: Key<E>): E?

    /**
     * Accumulates entries of this context starting with [initial] value and applying [operation]
     * from left to right to current accumulator value and each element of this context.
     */
    public fun <R> fold(initial: R, operation: (R, Element) -> R): R

    /**
     * Returns a context containing elements from this context and elements from another [context].
     * The elements from this context with the same key as in the other one are dropped.
     */
    public fun minusKey(key: Key<*>): CoroutineContext

    /**
     * Returns a context containing elements from this context, but without an element with
     * the specified [key].
     */
    public fun minusKey(key: Key<*>): CoroutineContext
}

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16176
CoroutineContext. [E] is a type of element with this key. An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself. A key of this coroutine context element. public val key: Key<E> public override operator fun <E : Element> get(key: Key<E>): E? = if (this.key === key) this as E else null public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16177
continuation.

*\n* Note that it is not recommended to call either [Continuation.resume] nor
[Continuation.resumeWithException] functions synchronously in the same stackframe where suspension
function is run. Use [suspendCoroutine] as a safer way to obtain current continuation instance.

*\n* @SinceKotlin("1.3")\n*\n* Continuation.resume\n*\n* Note that it is not recommended to call either [Continuation.resume] nor
[Continuation.resumeWithException] functions synchronously in the same stackframe where suspension
function is run. Use [suspendCoroutine] as a safer way to obtain current continuation instance.

*\n* suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T =\n*\n* throw
NotImplementedError("Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic\")\n*\n* This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] 'block' argument to state that
*\n* the execution was suspended and will not return any result immediately.\n*\n* **Note: this value should not be used in general code.** Using it outside of the context of
*\n* 'suspendCoroutineUninterceptedOrReturn' function return value (including, but not limited to,\n*\n* storing this value in other properties, returning it from other functions, etc)\n*\n* can lead to unspecified behavior of the code:\n*\n* It is implemented as property with getter to avoid
ProGuard <clinit> problem with multifile IntrinsicsKt class\n*\n* COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED\n*\n* Using enum here ensures two important properties:\n*\n* 1. It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them
natively support enums)\n*\n* 2. It improves debugging experience, since you clearly see toString() value of those objects and what
package they come from\n*\n* This class is Published API via serialized representation of SafeContinuation, don't rename/move\n*\n* enum class CoroutineSingletons { COROUTINE_SUSPENDED, UNDECIDED, RESUMED }\n*\n* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n*\n* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n*\n* package
tkotlin.experimental\n*\n*/** Performs a bitwise AND operation between the two values.\n*\n* @SinceKotlin("1.1")\n*\n*fun Byte.and(other: Byte): Byte =\n*\n* (this.toInt() and other.toInt()).toByte()\n*\n*/** Performs a bitwise OR operation between the two values.\n*\n* @SinceKotlin("1.1")\n*\n*fun Byte.or(other: Byte): Byte =\n*\n* (this.toInt() or other.toInt()).toByte()\n*\n*/** Performs a bitwise XOR operation between the two values.\n*\n* @SinceKotlin("1.1")\n*\n*fun Byte.xor(other: Byte): Byte =\n*\n* (this.toInt() xor other.toInt()).toByte()\n*\n*/** Inverts the bits in this value.\n*\n* @SinceKotlin("1.1")\n*\n*fun Byte.inv(): Byte =\n*\n* (this.toInt().inv()).toByte()\n*\n*/** Performs a bitwise AND operation between the two values.\n*\n* @SinceKotlin("1.1")\n*\n*fun Short.and(other: Short): Short =\n*\n* (this.toInt() and other.toInt()).toShort()\n*\n*/** Performs a bitwise OR operation between the two values.\n*\n* @SinceKotlin("1.1")\n*\n*fun Short.or(other: Short): Short =\n*\n* (this.toInt() or other.toInt()).toShort()\n*\n*/** Performs a bitwise XOR operation between the two values.\n*\n* @SinceKotlin("1.1")\n*\n*fun Short.xor(other: Short): Short =\n*\n* (this.toInt() xor other.toInt()).toShort()\n*\n*/** Inverts the bits in this value.\n*\n* @SinceKotlin("1.1")\n*\n*fun Short.inv(): Short =\n*\n* (this.toInt().inv()).toShort()\n*\n*/** Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n*\n* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n*\n* package
tkotlin.experimental\n*\n*/** The experimental marker for type inference augmenting annotations.\n*\n* @ExperimentalTypeInference must be accepted either by\n*\n* annotating that usage with the [OptIn] annotation, e.g. \`@OptIn(ExperimentalTypeInference::class)\`,\n*\n* or by using the compiler argument `-Xopt-in=kotlin.experimental.ExperimentalTypeInference`\n*\n* The experimental marker for type inference augmenting annotations.\n*\n* Any usage of a declaration annotated with\n*\n* `@ExperimentalTypeInference` must be accepted either by\n*\n* annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTypeInference::class)`,\n*\n* or by using the compiler argument `-Xopt-in=kotlin.experimental.ExperimentalTypeInference`.\n*\n* @OptIn(ExperimentalTypeInference::class)\n*\n* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
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license/LICENSE.txt file.

package kotlin.internal

/**
 * Specifies that the corresponding type should be ignored during type inference.
 */
@Target(AnnotationTarget.TYPE)
@Retention(AnnotationRetention.BINARY)
inernal annotation class
NoInfer

/**
 * Specifies that the constraint built for the type during type inference should be an equality one.
 */
@Target(AnnotationTarget.TYPE)
@Retention(AnnotationRetention.BINARY)
inernal annotation class
Exact

/**
 * Specifies that a corresponding member has the lowest priority in overload resolution.
 */
@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)
@Retention(AnnotationRetention.BINARY)
inernal annotation class
LowPriorityInOverloadResolution

/**
 * Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that an extension annotated with this annotation will win in overload resolution over a member with the same signature.
 */
@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)
@Retention(AnnotationRetention.BINARY)
inernal annotation class
HidesMembers

/**
 * The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).
 */
@Target(AnnotationTarget.TYPE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
internal annotation class
OnlyInputTypes

/**
 * Specifies that this function should not be called directly without inlining.
 */
@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY,
AnnotationTarget.PROPERTY_GETTER,
AnnotationTarget.PROPERTY_SETTER)
@Retention(AnnotationRetention.BINARY)
internal annotation class
InlineOnly

/**
 * Specifies that this declaration can have dynamic receiver type.
 */
@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)
@Retention(AnnotationRetention.BINARY)
inernal annotation class
DynamicExtension

/**
 * The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property. The the backing field of which is accessible at the point where the corresponding argument is passed.
 */
@Target(AnnotationTarget.VALUE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.2")
inernal annotation class
AccessibleLateinitPropertyLiteral

/**
 * Specifies that this declaration is only completely supported since the specified version. The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration. The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely, specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration. Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going to treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports the Kotlin 1.2 going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement. This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.
 */
@Target(AnnotationTarget.CLASS,
AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY,
AnnotationTarget.CONSTRUCTOR,
AnnotationTarget.TYPEALIAS)
@Retention(AnnotationRetention.SOURCE)
@Repeatable
@SinceKotlin("1.2")
inernal annotation class
RequireKotlin

/**
 * The kind of the version that is required by the version that is required by [RequireKotlin].
 */
@SinceKotlin("1.2")
internal enum class
RequireKotlinVersionKind
RequireKotlinVersionKind {
    LANGUAGE_VERSION,
    COMPILER_VERSION,
}

API_VERSION,*/un* * Specifies that this declaration is a part of special DSL, used for constructing function's contract.*/un/* Retention(AnnotationRetention.BINARY))/un@SinceKotlin("1.2")//un * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.*/un * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.*/un/*unpackage kotlin.properties*/un/*import kotlin.reflect.KProperty*/un/* Standard property delegates.*/un/*public*/un/*object Delegates {*/un/* */un/* * Returns a property delegate for a read/write property with a non-`null` value that is initialized not during */un/* * object construction time but at a later time. Trying to read the property before the initial value has been */un/* * assigned results in an exception.*/un/* */un/* * @param initialValue the initial value of the property.*/un/* */un/* * @param onChange the callback which is called after the change of the property is made. The value of the property*/un/* * has already been changed when this callback is invoked.*/un/* */un/* * @sample samples.properties.Delegates.notNullDelegate*/un/* */un/* * @param onChange fun<T : Any> notNull():*/un/* */un/* * @sample samples.properties.Delegates.observableDelegate*/un/* */un/* * @param onChange fun<T : Any> vetoable(initialValue: T,*/un/* */un/* * crossinline onBeforeChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):*/un/* */un/* * @sample samples.properties.Delegates.vetoableDelegate*/un/* */un/* * @param onChange fun<T : Any> throwVetoableDelegate*/un/* */un/* * @sample samples.properties.Delegates.throwVetoableDelegate*/un/* */un/* * @sample samples.properties.Delegates.notNullDelegate*/un/* */un/* * @sample samples.properties.Delegates.observableDelegate*/un/* */un/* * @sample samples.properties.Delegates.vetoableDelegate*/un/* */un/* * @sample samples.properties.Delegates.notNullDelegate*/un/* */un/* * @sample samples.properties.Delegates.observableDelegate*/un/* */un/* * @sample samples.properties.Delegates.vetoableDelegate*/un/* */un/* * @sample samples.properties.Delegates.notNullDelegate*/un/* */un/* * @sample samples.properties.Delegates.observableDelegate*/un/* */un/* * @sample samples.properties.Delegates.vetoableDelegate*/un/* */un/* * class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {
    private var
    value: T? = null

    public override fun getValue(thisRef: Any?, property: KProperty<*>): T {
        return value
    }

    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {
        this.value = value
    }
}

private class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {
    private var
    value: T? = null

    public override fun getValue(thisRef: Any?, property: KProperty<*>): T {
        return value
    }

    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {
        this.value = value
    }
}

class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {
    private var
    value: T? = null

    public override fun getValue(thisRef: Any?, property: KProperty<*>): T {
        return value
    }

    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {
        this.value = value
    }
}

class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {
    private var
    value: T? = null

    public override fun getValue(thisRef: Any?, property: KProperty<*>): T {
        return value
    }

    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {
        this.value = value
    }
}

```
* *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return a sequence of values different from the current one for a given seed.

```kotlin
@sample

@SinceKotlin("1.3")
public fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31)).

@SinceKotlin("1.3")
public fun Random(seed: Long): Random = XorWowRandom(toInt(), seed shr 32).toInt()).

@SinceKotlin("1.3")
public fun Random.nextInt(range: IntRange): Int = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)
    else -> nextInt(1, range.last + 1)
}

@SinceKotlin("1.3")
public fun Random.nextDouble(range: DoubleRange): Double = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < Double.MAX_VALUE -> nextDouble(range.first, range.last + 1)
    else -> nextDouble(1, range.last + 1)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(): UInt = nextInt().toUInt()

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(until: UInt): UInt = nextUInt(0u, until)

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(from: UInt, until: UInt): UInt {
    checkUIntRangeBounds(from, until)

    val signedFrom = from.toInt() xor Int.MIN_VALUE
    val signedUntil = until.toInt() xor Int.MIN_VALUE

    val signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE
    return signedResult.toUInt()
}

internal fun boundsErrorMessage(from: Any, until: Any) = "Random range is empty: [$from, $until)."
```

---

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16184
IllegalArgumentException if [range] is empty.

Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and [ULong.MAX_VALUE] (inclusive).
must have at least one non-zero element.\n" ]\n
    // some trivial seeds can produce several values with zeroes in
    // upper bits, so we discard first 64\n    repeat(64) { nextInt() } \n
    override fun nextInt(): Int { \n        // Equivalent to the xorxow algorithm
        var t = x\n        t = t xor (t ushr 2)\n        x = y\n        y = z\n        z = v\n        val v0 = v \n        w = v0\n        t = (t
        xor (t shl 1)) xor v0 xor (v0 shl 4)\n        v = t\n        addend += 362437\n        return t + addend\n    }

    override fun nextBits(bitCount: Int): Int =
        nextInt().takeUpperBits(bitCount)\n
    override fun nextInt(): Int {
        // Equivalent to the xorxow algorithm
        var t = x
        t = t xor (t ushr 2)
        x = y
        y = z
        z = w
        val v0 = v
        w = v0
        t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)
        v = t
        addend += 362437
        return t + addend
    }

    override

    fun nextBits(bitCount: Int): Int =
        nextInt().takeUpperBits(bitCount)
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("RangesKt")

package
kotlin.ranges

/**
 * Represents a range of [Comparable] values.
 */
private open class ComparableRange<T : Comparable<T>>(
    override val start: T,
    override val endInclusive: T
) : ClosedRange<T> {

    override

    fun equals(other: Any?): Boolean {
        return other is ComparableRange<*> && (isEmpty() &&
                start == other.start && endInclusive == other.endInclusive)
    }

    override

    fun hashCode(): Int {
        return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()
    }

    override

    fun toString(): String = "$start..$endInclusive"
}

/**
 * Creates a range from this [Comparable] value to the
 * specified [that] value. *\n * This value needs to be smaller than [that] value, otherwise the returned range will be
 * empty.\n * @sample samples.ranges.Ranges.rangeFromComparable\n */
public operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> =
    ComparableRange(this, that)


/**
 * Represents a
 * closed range of values of type `Double`.
 * *\n * Numbers are compared with the ends of this range according to IEEE-754 comparison order
 * instead of total order of floating point numbers.\n * @sample samples.ranges.Ranges.rangeFromDouble\n */
private class ClosedDoubleRange(
    start: Double,
    endInclusive: Double
) : ClosedFloatingPointRange<Double> {
    private val _start = start
    private val _endInclusive = endInclusive

    override

    fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b

    override

    fun contains(value: Double): Boolean =
        value >= _start && value <= _endInclusive
    override

    fun isEmpty(): Boolean = !_start <= _endInclusive

    override

    fun equals(other: Any?): Boolean {
        return other is ClosedDoubleRange && (isEmpty() &&
                _start == other._start && _endInclusive == other._endInclusive)
    }

    override

    fun hashCode(): Int {
        return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()
    }

    override

    fun toString(): String = "$_start..$_endInclusive"
}

/**
 * Creates a range from this [Double]
 * value to the specified [that] value.
 * *\n * Numbers are compared with the ends of this range according to IEEE-754 comparison order
 * instead of total order of floating point numbers.\n */
private class ClosedFloatRange(
    start: Float,
    endInclusive: Float
) : ClosedFloatingPointRange<Float> {
    private val _start = start
    private val _endInclusive = endInclusive

    override

    fun lessThanOrEquals(a: Float, b: Float): Boolean = a <= b

    override

    fun contains(value: Float): Boolean =
        value >= _start && value <= _endInclusive
    override

    fun isEmpty(): Boolean = !_start <= _endInclusive

    override

    fun equals(other: Any?): Boolean {
        return other is ClosedFloatRange && (isEmpty() &&
                _start == other._start && _endInclusive == other._endInclusive)
    }

    override

    fun hashCode(): Int {
        return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()
    }

    override

    fun toString(): String = "$_start..$_endInclusive"
}
override fun toString(): String = 
"$_start..$_endInclusive"

/**
 * Creates a range from this [Float] value to the specified [that] value.
 * *n * Numbers are compared with the ends of this range according to IEEE-754.
 * @param samples ranges.Ranges.RangeFrom.Float n @SinceKotlin("1.1") public operator fun 
 * Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)
 * *n * Always returns 'false' if the [element] is 'null'.
 * *n @SinceKotlin("1.3") n @kotlin.internal.InlineOnly
 * public inline operator fun <T, R: ClosedRange<T>> in element != null &&
 * contains(element) nullable
 * used checkStepsIsPositive(isPositive: Boolean, step: Number) {
 * if (isPositive)
 * throw IllegalArgumentException("Step must be positive, was: $step."ähl)"
 * */

/**
 * Returns a runtime representation of the given reified type [T] as an instance of [KType].
 * */
@Suppress("unused") // KT-12448
@SinceKotlin("1.3")
@kotlin.experimental.KotlinExpect
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
package kotlin.text

/**
 * An object to which char sequences and values can be appended.
 * */
expect interface Appendable {
    /**
     * Appends the specified character [value] to this Appendable and returns this instance.
     * @param value the character to append.
     */
    fun append(value: Char): Appendable

    /**
     * Appends the specified character sequence [value] to this Appendable and returns this instance.
     * @param value the character sequence to append.
     */
    fun append(value: CharSequence?): Appendable

    /**
     * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.
     * @param start the beginning (inclusive) of the subsequence to append.
     * @param end the end (exclusive) of the subsequence to append.
     */
    fun append(value: CharSequence?, start: Int, end: Int): Appendable
}

" /*
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 */

package kotlin.reflect

/**
 * Casts the given [value] to the class represented by this [KClass] object.
 * *n * Throws an exception if the value is 'null' or if it is not an instance of this class.
 * *n * This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.
 * *n * @see [KClass.isInstance]
 * *n * @see [KClass.safeCast]
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
fun <T : Any> KClass<T>.cast(value: Any?): T {
    if (!isInstance(value)) throw ClassCastException("Value cannot be cast to $qualifiedName")
    return value as T
}

/**
 * Casts the given [value] to the class represented by this [KClass] object.
 * Returns 'null' if the value is 'null' or if it is not an instance of this class.
 * *n * This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.
 * *n * @see [KClass.isInstance]
 * *n * @see [KClass.safeCast]
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
fun <T : Any> KClass<T>.safeCast(value: Any?): T? {
    return if (isInstance(value)) value as T else null
}

"/*
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 */

package kotlin.reflect

/**
 * Returns a runtime representation of the given reified type [T] as an instance of [KType].
 * */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
fun typeOf(): KType =
    throw UnsupportedOperationException("This function is implemented as an intrinsic on all supported platforms.")
contained the four characters `"null"`.

* @param startIndex the beginning (inclusive) of the subsequence to append.
* @param endIndex the end (exclusive) of the subsequence to append.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.

```kotlin
@Suppress("UNCHECKED_CAST")
    return append(value, startIndex, endIndex) as T
}

/**
 * Appends all arguments to the given Appendable.
 */
public fun <T : Appendable> T.append(vararg value: CharSequence?): T {
    for (item in value)
        append(item)
    return this
}


internal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence)?) {
    when {
        transform != null -> append(transform(element))
        element is CharSequence? -> append(element)
        element is Char -> append(element)
        else ->
            append(element.toString())
    }
}
```

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 */

```kotlin
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CharsKt")

package kotlin.text

/**
 * Concatenates this Char and a String.
 *
 * @sample samples.text.Chars.plus
 */
@kotlin.internal.InlineOnly
public inline operator fun Char.plus(other: String): String = this.toString() + other

/**
 * Returns `true` if this character is equal to the other character, optionally ignoring character case.
 *
 * Two characters are considered the same ignoring case if at least one of the following is `true`:
 *   - The two characters are the same (as compared by the == operator)
 *   - Applying the method [toUpperCase] to each character produces the same result
 *   - Applying the method [toLowerCase] to each character produces the same result
 *
 * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.
 * @see equals
 */
public fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {
    if (this == other) return true
    if (!ignoreCase) return false

    if (this.toUpperCase() == other.toUpperCase()) return true
    if (this.toLowerCase() == other.toLowerCase()) return true
    return false
}

/**
 * Returns `true` if this character is a Unicode surrogate code unit.
 */
public fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE
```

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 */

```kotlin
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin.text

/**
 * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes the first and the last lines if they are blank (notice difference blank vs empty).
 *
 * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.
 * Doesn't preserve the original line endings.
 *
 * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).
 * @see trimIndent
 * @see kotlin.text.isWhitespace
 */
public fun String.trimMargin(marginPrefix: String = "\n") = replaceIndentByMargin("\n\n", marginPrefix) + marginPrefix

/**
 * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].
 *
 * @param newIndent non-blank string, which is used as a margin delimiter.
 * @see trimIndent
 */
public fun String.replaceIndentByMargin(newIndent: String = "\n", marginPrefix: String = "\n") = require(marginPrefix == null) { "marginPrefix must be null-blank string." }

```
the indentation.

 * Doesn't preserve the original line endings.

 @sample
 *
 * Doesn't preserve the original line endings.
 *
 * @see trimMargin
 * @see kotlin.test.isBlank
 */
public fun

/**
 * Detects a common minimal indent like it does
 */
public fun String.replaceIndent(newIndent: String = ""): String {
    val lines = lines()

    val minCommonIndent = lines
        .filter { it.isNotBlank() }
        .map { it.indentWidth() } .min() ?: 0
    return lines.reindent(length + newIndent.length * lines.size,
    getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })
}

/**
 * Prepends [indent] to every
 * line of the original string.
 * Doesn't preserve the original line endings.
 */
public fun String.prependIndent(indent: String = "    "): String =
    lineSequence()
        .map {
            when {
                it.isBlank() -> {
                    when {
                        it.length < indent.length -> indent
                        else -> it
                    }
                }
                else -> indent + it
            }
        }
        .joinTo("\n")

private fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }

private fun getIndentFunction(indent: String) = when {
    indent.isEmpty() -> { line: String -> line }
    else -> { line: String -
        > indent + line }
}

private inline fun List<String>.reindent(
    resultSizeEstimate: Int,
    indentAddFunction: (String) -> String,
    indentCutFunction: (String) -> String? )
        : String {
    val lastIndex = lastIndex
    return
        mapIndexedNotNull { index, value ->
        if ((index == 0 || index == lastIndex) && value.isBlank())
            null
        else
            indentCutFunction(value) ?.let { indentAddFunction(it) } ?: value
    }
        .joinTo(StringBuilder(resultSizeEstimate), "\n")
        .toString()


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 */

package kotlin.text

/**
 * Defines names for
 */
public object Typography {
    public const val quote: Char = '\u0022'
    public const val dollar: Char = '\u0024'
    public const val amp: Char = '\u0026'
    public const val less: Char = '\u003C'
    public const val greater: Char = '\u003E'
    public const val nbsp: Char = '\u00A0'
    public const val times: Char = '\u00D7'
    public const val cent: Char = '\u00A2'
    public const val pound: Char = '\u00A3'
    public const val section: Char = '\u00A7'
    public const val copyright: Char = '\u00A9'
    public const val leftGuillemete: Char = '\u00AB'
    public const val rightGuillemete: Char = '\u00BB'
    public const val registered: Char = '\u00AE'
    public const val degree: Char = '\u00B0'
    public const val plusMinus: Char = '\u2026'
    public const val prime: Char = '\u2032'
    public const val doublePrime: Char = '\u2033'
    public const val euro: Char = '\u20AC'
    public const val tm: Char = '\u2122'
    public const val almostEqual: Char = '\u2248'
    public const val lowSingleQuote: Char = '\u2018'
    public const val lowDoubleQuote: Char = '\u201E'
    public const val leftSingleQuote: Char = '\u2018'
    public const val rightSingleQuote: Char = '\u201D'


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This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.

An element of the collection at the particular index can be `null` if the corresponding group in the regular expression is optional and if there was no match captured by that group.

Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.

An element of the collection at the particular index can be `null` if the corresponding group in the regular expression is optional and if there was no match captured by that group.

Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.

A group with the index 0 corresponds to the entire match.

@public operator fun get(index: Int): MatchGroup?

@public operator fun get(name: String): MatchGroup?

@public class Destructured internal constructor(public val group: MatchResult) {
        @kotlin.internal.InlineOnly
        public operator inline fun component1(): String = match.groupValues[1]
        @kotlin.internal.InlineOnly
        public operator inline fun component2(): String = match.groupValues[2]
        @kotlin.internal.InlineOnly
        public operator inline fun component3(): String = match.groupValues[3]
        @kotlin.internal.InlineOnly
        public operator inline fun component4(): String = match.groupValues[4]
        @kotlin.internal.InlineOnly
        public operator inline fun component5(): String = match.groupValues[5]
        @kotlin.internal.InlineOnly
        public operator inline fun component6(): String = match.groupValues[6]
}

/**
 * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of group values.

* component1 corresponds to the value of the first group, component2 the second, and so on.

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* component1 corresponds to the value of the first group, component2 the second, and so on.

* An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of group values.
component7(): String = match.groupValues[7]
component8(): String = match.groupValues[8]
component9(): String = match.groupValues[9]
component10(): String = match.groupValues[10] /* * Returns destructured group values as a list of strings.
 * First value in the returned list corresponds to the value of the first group, and so on.
 */
* @sample samples.text.Regexps.matchDestructuringToGroupValues
public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)


package kotlin.time
import kotlin.math.abs

@UseExperimental(ExperimentalTime::class)
private inline val storageUnit get() = DurationUnit.NANOSECONDS

/**
 * Represents the amount of time one instant of time is away from another instant.
 * A negative duration is possible in a situation when the second instant is earlier than the first one.
 * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.
 * * Represents the amount of time one instant of time is away from another instant.
 * Negative duration is possible in a situation when the second instant is earlier than the first one.
 * Finite duration value only exists if the second instant is after the first one.
 * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.
 * * Represents the amount of time one instant of time is away from another instant.
 * Negative duration is possible in a situation when the second instant is earlier than the first one.
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 * Negative duration is possible in a situation when the second instant is earlier than the first one.
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 * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.
 * * Represents the amount of time one instant of time is away from another instant.
 * Negative duration is possible in a situation when the second instant is earlier than the first one.
 * Finite duration value only exists if the second instant is after the first one.
 */


companion object {

        /**
         * Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit].
         * * Returns a duration whose value is the difference between this and [other] duration values.
         */
        public fun minus(other: Duration): Duration = Duration(value - other.value)

        /**
         * Returns a number that is the ratio of this and [other] duration values.
         */
        public operator fun div(scale: Int): Duration = Duration(value / scale)

        /**
         * Returns a duration whose value is the sum of this and [other] duration values.
         */
        public operator fun plus(other: Duration): Duration = Duration(value + other.value)

        /**
         * Returns a duration whose value is the difference between this and [other] duration values.
         */
        public fun minus(other: Duration): Duration = Duration(value - other.value)

        /**
         * Returns a number that is the ratio of this and [other] duration values.
         */
        public operator fun div(scale: Int): Duration = Duration(value / scale)

        /**
         * Returns a duration whose value is the sum of this and [other] duration values.
         */
        public operator fun plus(other: Duration): Duration = Duration(value + other.value)

        /**
         * Returns a number that is the ratio of this and [other] duration values.
         */
        public operator fun div(scale: Int): Duration = Duration(value / scale)

        /**
         * Returns a duration whose value is the sum of this and [other] duration values.
         */
        public operator fun plus(other: Duration): Duration = Duration(value + other.value)

        /**
         * Returns a number that is the ratio of this and [other] duration values.
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         * Returns a duration whose value is the sum of this and [other] duration values.
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        /**
         * Returns a number that is the ratio of this and [other] duration values.
         */
        public operator fun div(scale: Int): Duration = Duration(value / scale)

        /**
         * Returns a duration whose value is the sum of this and [other] duration values.
         */
        public operator fun plus(other: Duration): Duration = Duration(value + other.value)
public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =
    Action(inDays.toLong(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)/* T */ * Splits this duration into days, hours, minutes, and seconds, and executes the given [action] with these components.
    * The result of [action] is returned as the result of this function.
   ="/n
    public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int) -> T): T =
    Action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent)/* T */ * Splits this duration into days, hours, minutes, and seconds, and executes the given [action] with these components.
    * The result of [action] is returned as the result of this function.
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    public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int) -> T): T =
    Action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent)/* T */ * Splits this duration into days, hours, minutes, and seconds, and executes the given [action] with these components.
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    Action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent)/* T */ * Splits this duration into days, hours, minutes, and seconds, and executes the given [action] with these components.
    * The result of [action] is returned as the result of this function.
   ="/n
    /*
    public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =
    Action(inDays.toLong(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)/* T */ * Splits this duration into days, hours, minutes, seconds, and nanoseconds, and executes the given [action] with these components.
    * The result of [action] is returned as the result of this function.
   ="/n
    /*
    public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int) -> T): T =
    Action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent)/* T */ * Splits this duration into days, hours, minutes, seconds, and nanoseconds, and executes the given [action] with these components.
    * The result of [action] is returned as the result of this function.
   ="/n
    /*
    public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =
    Action(inDays.toLong(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)/* T */ * Splits this duration into days, hours, minutes, seconds, and nanoseconds, and executes the given [action] with these components.
    * The result of [action] is returned as the result of this function.
   ="/n
    /*
    public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =
    Action(inDays.toLong(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)/* T */ * Splits this duration into days, hours, minutes, seconds, and nanoseconds, and executes the given [action] with these components.
    * The result of [action] is returned as the result of this function.
   ="/n
    /*
    public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =
    Action(inDays.toLong(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)/* T */ * Splits this duration into days, hours, minutes, seconds, and nanoseconds, and executes the given [action] with these components.
    * The result of [action] is returned as the result of this function.
   ="/n
    "*/

    "}"
public val inMilliseconds: Double get() = toDouble(DurationUnit.MILLISECONDS) /*
 * The value of this duration expressed as a [Double] number of microseconds.
 * * public val inMicroseconds: Double get() =
 * toDouble(DurationUnit.MICROSECONDS) // shortcuts
 */

public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)

public val inNanoseconds: Double get() = toDouble(DurationUnit.NANOSECONDS)

// shortcuts

public fun toLongNanoseconds(): Long = toLong(DurationUnit.NANOSECONDS)

public fun toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)

override fun toString(): String = when {
    isInfinite() ->
    value.toString()
    value == 0.0 -> "0s"
    else -> {
        val absNs = absoluteValue.inNanoseconds
        var scientific = false
        var maxDecimals = 0
        val unit = when {
            absNs < 1e-6 -> DurationUnit.SECONDS.also { scientific = true }
            absNs < 1 -> DurationUnit.NANOSECONDS
            absNs < 1e3 -> DurationUnit.MICROSECONDS
            absNs < 1e6 -> DurationUnit.MILLISECONDS
            absNs < 1000e9 -> DurationUnit.SECONDS
            absNs < 60_000e9 -> DurationUnit.MINUTES
            absNs < 3600_000e9 -> DurationUnit.HOURS
            absNs < 86400e9 * 1e7 -> DurationUnit.DAYS
            else -> DurationUnit.DAY
        }
        val value = toDouble(unit)
        when {
            scientific -> formatScientific(value)
            maxDecimals > 0 -> formatUpToDecimals(value, maxDecimals)
            else -> formatToExactDecimals(value, precision(abs(value)))
        } + unit.shortName()
    }
}

fun formatScientific(value: Double): String = when {
    value < 1e14 -> formatToExactDecimals(value, 0)
    else -> formatScientific(value)
} + unit.shortName()

fun formatUpToDecimals(value: Double, decimals: Int): String = when {
    value < 1e10 ->
    value < 1e13 -> formatToExactDecimals(value, decimals)
    else -> formatScientific(value)
} + unit.shortName()

fun formatToExactDecimals(value: Double, decimals: Int): String = when {
    value < 1e9 ->
    value < 1e12 -> formatToExactDecimals(value, decimals)
    else -> formatScientific(value)
} + unit.shortName()
@UseExperimental(ExperimentalStdlibApi::class)
public fun toIsoString(): String = buildString {
    if (isNegative()) append('-')
    append("PT")
    absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->
        val hasHours = hours != 0
        val hasMinutes = minutes != 0
        val hasSeconds = seconds != 0 || nanoseconds != 0
        if (hasHours) {
            append(hours).append('H')
        }
        if (hasMinutes) {
            append(minutes).append('M')
        }
        if (hasSeconds || (!hasHours && !hasMinutes)) {
            append(seconds)
            if (nanoseconds != 0) {
                appendRange(nanoseconds, 0, 9)
            }
        }
    }
}

// constructing from number of units
// extension functions

/**
 * Returns a [Duration] equal to this [Int] number of the specified [unit].
 */
@SinceKotlin("1.3")
@ExperimentalTime
public fun Int.toDuration(unit: DurationUnit): Duration =
toDouble().toDuration(unit)

/**
 * Returns a [Duration] equal to this [Long] number of the specified [unit].
 */
@SinceKotlin("1.3")
@ExperimentalTime
public fun Long.toDuration(unit: DurationUnit): Duration =
toDouble().toDuration(unit)

/**
 * Returns a [Duration] equal to this [Double] number of the specified [unit].
 */
@SinceKotlin("1.3")
@ExperimentalTime
public fun Double.toDuration(unit: DurationUnit): Duration =
toDuration(convertDurationUnit(this, unit, StorageUnit.Unit.SECONDS))

// constructing from number of units
// extension properties

/**
 * Returns a [Duration] equal to this [Int] number of nanoseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.nanoseconds get() =
toDuration(Duration.NANOSECONDS)

/**
 * Returns a [Duration] equal to this [Long] number of nanoseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.nanoseconds get() =
toDuration(Duration.NANOSECONDS)

/**
 * Returns a [Duration] equal to this [Double] number of nanoseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.nanoseconds get() =
toDuration(Duration.NANOSECONDS)

/**
 * Returns a [Duration] equal to this [Int] number of microseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.microseconds get() =
toDuration(Duration.MICROSECONDS)

/**
 * Returns a [Duration] equal to this [Long] number of microseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.microseconds get() =
toDuration(Duration.MICROSECONDS)

/**
 * Returns a [Duration] equal to this [Double] number of microseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.microseconds get() =
toDuration(Duration.MICROSECONDS)

/**
 * Returns a [Duration] equal to this [Int] number of milliseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.milliseconds get() =
toDuration(Duration.MILLISECONDS)

/**
 * Returns a [Duration] equal to this [Long] number of milliseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.milliseconds get() =
toDuration(Duration.MILLISECONDS)

/**
 * Returns a [Duration] equal to this [Double] number of milliseconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.milliseconds get() =
toDuration(Duration.MILLISECONDS)

/**
 * Returns a [Duration] equal to this [Int] number of seconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.seconds get() =
toDuration(Duration.SECONDS)

/**
 * Returns a [Duration] equal to this [Long] number of seconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.seconds get() =
toDuration(Duration.SECONDS)

/**
 * Returns a [Duration] equal to this [Double] number of seconds.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.seconds get() =
toDuration(Duration.SECONDS)

/**
 * Returns a [Duration] equal to this [Int] number of minutes.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.minutes get() =
toDuration(Duration.MINUTES)

/**
 * Returns a [Duration] equal to this [Long] number of minutes.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.minutes get() =
toDuration(Duration.MINUTES)

/**
 * Returns a [Duration] equal to this [Double] number of minutes.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.minutes get() =
toDuration(Duration.MINUTES)
public val Int.hours get() =
toDuration(DurationUnit.HOURS)

/**
 * Returns a [Duration] equal to this [Int] number of hours.
 */
public val Long.hours get() =
toDuration(DurationUnit.HOURS)

/**
 * Returns a [Duration] equal to this [Double] number of hours.
 */
public val Double.hours get() =
toDuration(DurationUnit.HOURS)

/**
 * Returns a [Duration] equal to this [Int] number of days.
 */
public val Int.days get() =
toDuration(DurationUnit.DAYS)

/**
 * Returns a [Duration] equal to this [Long] number of days.
 */
public val Long.days get() =
toDuration(DurationUnit.DAYS)

/**
 * Returns a [Duration] equal to this [Double] number of days.
 */
public val Double.days get() =
toDuration(DurationUnit.DAYS)

/**
 * Returns a duration whose value is the specified [duration] value multiplied by this number.
 */
public inline operator fun Int.times(duration: Duration): Duration = duration * this

/**
 * Returns a duration whose value is the specified [duration] value multiplied by this number.
 */
public inline operator fun Double.times(duration: Duration): Duration = duration * this

package kotlin.time

/**
 * The list of possible time measurement units, in which a duration can be expressed.
 * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24 [HOURS].
 */
public expect enum class DurationUnit {
    /**
     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.
     */
    NANOSECONDS,
    /**
     * Time unit representing one microsecond, which is 1/1000 of a millisecond.
     */
    MICROSECONDS,
    /**
     * Time unit representing one millisecond, which is 1/1000 of a second.
     */
    MILLISECONDS,
    /**
     * Time unit representing one second.
     */
    SECONDS,
    /**
     * Time unit representing one minute.
     */
    MINUTES,
    /**
     * Time unit representing one hour.
     */
    HOURS,
    /**
     * Time unit representing one day, which is always equal to 24 hours.
     */
    DAYS;
}

/**
 * Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit].
 */
internal expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double

/**
 * This annotation marks the experimental preview of the standard library API for measuring time and working with durations.
 * Note that this API is in a preview state and has a very high chance of being changed in the future.
 * Do not use it if you develop a library since your library will become binary incompatible with the future versions of the standard library.
 * Any usage of a declaration annotated with @ExperimentalTime must be accepted either by annotating that usage with the [OptIn] annotation, e.g. @OptIn(ExperimentalTime::class),
 * or by using the compiler argument -Xopt-in=kotlin.time.Experimental.
 */
@Suppress("DEPRECATION")
@Experimental(level = Experimental.Level.ERROR)
@RequiresOptIn(level = Experimental.Level.OPT_IN)

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1)
An abstract class used to implement time sources that return their readings as [Long] values in the specified [unit]. In this time source's readings are expressed.

protected abstract fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset

override fun plus(duration: Duration): TimeMark = DoubleTimeMark(startedAt, timeSource, offset + duration)

override fun markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)

A time source that has programmatically updatable readings. It is useful as a predictable source of time in tests.

```kotlin
val timeSource = TestTimeSource()
timeSource += 10.seconds
```
Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16198
*/
    }

    /**
     * Returns the string representation of this
     * override fun toString(): String = "$major.$minor.$patch"
     */

    override fun equals(other: Any?): Boolean {
        if (this === other) return true
        val otherVersion = (other as? KotlinVersion) ?: return false
        return this.version == otherVersion.version
    }

    override fun compareTo(other: KotlinVersion): Int = version - other.version

    /**
     * Returns `true` if this version is not less than the version specified
     * with the provided [major] and [minor] components.
     */
    public fun isAtLeast(major: Int, minor: Int): Boolean = this.major > major || (this.major == major && this.minor >= minor)

    /**
     * Returns `true` if this version is not less than the version specified
     * with the provided [major], [minor] and [patch] components.
     */
    public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = this.major > major || (this.major == major && this.minor > minor || this.minor == minor && this.patch >= patch)

    companion object {
        /**
         * Maximum value a version component can have, a constant value 255.
         */
        public const val MAX_COMPONENT_VALUE = 255

        /**
         * Returns the current version of the Kotlin standard library.
         */
        public val CURRENT: KotlinVersion = KotlinVersion(1, 3, 70)
    }
}

@file:kotlin.jvm.JvmName("LateinitKt")
@file:Suppress("unused")

package kotlin

import kotlin.internal.InlineOnly
import kotlin.internal.AccessibleLateinitPropertyLiteral
import kotlin.reflect.KProperty0

/**
 * Returns `true` if this lateinit property has been assigned a value, and `false`
 * otherwise.
 * Cannot be used in an inline function, to avoid binary compatibility issues.
 */
@SinceKotlin("1.2")
@InlineOnly
inline val @receiver:AccessibleLateinitPropertyLiteral KProperty0<*>.isInitialized: Boolean
    get() = throw NotImplementedError("Implementation is intrinsic")

@file:kotlin.jvm.JvmName("LazyKt")

package kotlin

import kotlin.reflect.KProperty

/**
 * Represents a value with lazy initialization.
 *
 * To create an instance of
 * [Lazy] use the [lazy] function.
 */
public interface Lazy<out T> {
    /**
     * Gets the lazily initialized value of
     * the current Lazy instance.
     * Once the value was initialized it must not change during the rest of lifetime of this
     * Lazy instance.
     * *An public val value: T
     */
    public val value: T

    /**
     * Returns `true` if a value for this Lazy instance has been
     * already initialized, and `false`
     * otherwise.
     * *An *A Once this function has returned `true` it stays `true` for the rest of
     * lifetime of this Lazy instance.
     * *An *A public fun isInitialized(): Boolean
     */
    public fun isInitialized(): Boolean

    /**
     * Specifies how a [Lazy] instance synchronizes initialization
     * among multiple threads.
     */
    public enum class LazyThreadSafetyMode {

        /**
         * Locks are used to ensure
         * that only a single thread can initialize the [Lazy] instance.
         */
        SYNCHRONIZED,

        /**
         * Initializer
         * function can be called several times on concurrent access to uninitialized [Lazy] instance value,
         * but only the
         * first returned value will be used as the value of [Lazy] instance.
         * This extension allows to use instances of Lazy for property delegation:
         * String by lazy { initializer }
         */
        PUBLICATION,

        /**
         * No
         * locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple
         * threads, its behavior is undefined.
         * This mode should not be used unless the [Lazy] instance is
         * guaranteed never to be initialized from more than one thread.
         * *An NONE
         */
        NONE,

        /**
         * An extension to delegate a read-only property of type [T] to an instance of
         * [Lazy].
         */
        UNINITIALIZED_VALUE
    }

    // internal to be called from lazy in JS
    internal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {
        private var
_value: Any? = UNINITIALIZED_VALUE
override val value: T = this

    override val value: T
                get() {
            if (_value === UNINITIALIZED_VALUE) {
                _value = initializer!!()
                initializer = null
            }

    @Suppress("UNCHECKED_CAST")
            return _value as T
        }

    override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE

    override fun toString(): String = if (isInitialized())
        value.toString() else "Lazy value not initialized yet."

    private fun writeReplace(): Any =
        InitializedLazyImpl(value)

internal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>,
        Serializable {

    override fun isInitialized(): Boolean = true

    override fun toString(): String =
        value.toString()

}

/*
 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
 * contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 * LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("NumbersKt")
package kotlin

/**
 * Counts the number of set bits in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.countOneBits(): Int

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.countLeadingZeroBits(): Int

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.countTrailingZeroBits(): Int

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number.
 * or zero, if this number is zero.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.takeHighestOneBit(): Int

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number.
 * or zero, if this number is zero.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.takeLowestOneBit(): Int

/**
 * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.
 * Rotating the number right by a negative bit count is the same as rotating it right by the negated bit count:
 * `number.rotateRight(-n) == number.rotateLeft(n)`
 * Rotating by a multiple of [Int.SIZE_BITS] (32) returns
 * the same number, or more generally
 * `number.rotateRight(n % 32) == number.rotateRight(n)`
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.rotateRight(bitCount: Int): Int

/**
 * Counts the number of set bits in the binary representation of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.countOneBits(): Int

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.countLeadingZeroBits(): Int

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.countTrailingZeroBits(): Int

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number.
 * or zero, if this number is zero.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.takeHighestOneBit(): Long

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number.
 * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
 * Rotating the number left by a negative bit count is the same as rotating it left by the negated bit count:
 * `number.rotateLeft(-n) == number.rotateRight(n)`
 * Rotating by a multiple of [Int.SIZE_BITS] (32) returns
 * the same number, or more generally
 * `number.rotateLeft(n % 32) == number.rotateLeft(n)`
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.rotateLeft(bitCount: Int): Long

Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 16200
rotating it right by the negated bit count:
* `number.rotateLeft(-n) == number.rotateRight(n)`
* Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally
* `number.rotateLeft(n) == number.rotateLeft(n % 64)`
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.rotateLeft(bitCount: Int): Long

* Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.
* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:
* `number.rotateLeft(-n) == number.rotateRight(n)`
* Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally
* `number.rotateRight(n) == number.rotateRight(n % 64)`
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Long.rotateRight(bitCount: Int): Long

* Counts the number of set bits in the binary representation of this [Byte] number.
* `Byte.countOneBits(): Int = (toInt() or 0xFF).countOneBits()`
* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.
* `Byte.countTrailingZeroBits(): Int = (toInt() and 0xFF).countTrailingZeroBits()`
* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.
* `Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)`
* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.
* `Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()`
* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.
* `Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()`
* Counts the number of set bits in the binary representation of this [Short] number.
* `Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()`
* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number.
* `Short.countTrailingZeroBits(): Int = (toInt() and 0xFFFF).countTrailingZeroBits()`
* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.
* `Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toByte()`
* Counts the number of set bits in the binary representation of this [Short] number.
* `Short.takeHighestOneBit(): Short = toInt().takeHighestOneBit().toByte()`

Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()  

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [Short] number.
 * 
 * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
 * 
 * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:
 * \( \text{number.rotateLeft(-n)} == \text{number.rotateRight(n)} \)
 * 
 * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally:
 * \( \text{number.rotateLeft(n)} == \text{number.rotateLeft(n \% 16)} \)
 */

@SinceKotlin("1.3")
@ConditionalOnJdk(minimumMajorVersion = 9)
public fun Short.rotateLeft(bitCount: Int): Short =

@SinceKotlin("1.3")
@ConditionalOnJdk(minimumMajorVersion = 9)
public fun Short.rotateRight(bitCount: Int): Short =

package kotlin

@file:kotlin.jvm.JvmName("TuplesKt")

package kotlin

/**
 * Represents a generic pair of two values.
 * There is no meaning attached to values in this class. It can be used for any purpose.
 * 
 * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.
 * An example of decomposing it into values:
 * 
 * Returns string representation of the [Pair] including its [first] and [second] values.
 * 
 * Converts this pair into a list.
 * 
 * Represents a triad of values.
 * 
 * There is no meaning attached to values in this class. It can be used for any purpose.
 * 
 * Triples exhibits value semantics, i.e. two triples are equal if all three components are equal.
 * An example of decomposing it into values:
 * 
 * Represents a triad of values.
 * 
 * There is no meaning attached to values in this class. It can be used for any purpose.
 * 
 * Triples exhibits value semantics, i.e. two triples are equal if all three components are equal.
 * An example of decomposing it into values:
 * 
 * Represents a triad of values.
 * 
 * There is no meaning attached to values in this class. It can be used for any purpose.
public override fun toString(): String = "($first, $second, $third)"

/**
 * Converts this triple into a list.
 */
public fun <T> Triple<T, T, T>.toList(): List<T> =
    listOf($first, $second, $third)

/**
 * A range of values of type `UInt`.
 */
public class UIntRange(start: UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {
    override val start: UInt get() = first
    override val endInclusive: UInt get() = last

    override fun contains(value: UInt): Boolean = first <= value && value <= last

    override fun isEmpty(): Boolean = first > last

    override fun equals(other: Any?): Boolean =
        other is UIntRange && (isEmpty() && other.isEmpty() ||
            first == other.first && last == other.last)

    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())

    override fun toString(): String = "$first..$last"

    companion object {
        /** An empty range of values of type UInt. */
        public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)
    }
}

/**
 * A progression of values of type `UInt`. */
public open class UIntProgression
internal constructor(
    start: UInt,
    endInclusive: UInt,
    step: Int
) : Iterable<UInt> {
    init {
        if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")
        if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.")

        *\n    }

    /**
     * The first element in the progression.
     */
    public val first: UInt = start

    /**
     * The last element in the progression.
     */
    public val last: UInt = getProgressionLastElement(start, endInclusive, step)

    /**
     * Checks if the progression is empty.
     */
    public open fun isEmpty(): Boolean =
        if (step > 0) first > last else first < last

    override fun equals(other: Any?): Boolean =
        other is UIntProgression && (isEmpty() &&
            first == other.first && last == other.last)

    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())

    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"

    companion object {
        /**
         * Creates UIntProgression within the specified bounds of a closed range.
         * 
         * @param rangeStart the start value of the range.
         * @param rangeEnd the end value of the range.
         * @param step the step value.
         */
        public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)
    }
}

/**
 * An iterator over a progression of values of type `UInt`.
 */
private class UIntProgressionIterator(first: UInt, last: UInt, step: Int) : UIntIterator() {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private val step = step.toUInt() // use 2-complement math for negative steps

    override fun hasNext(): Boolean = hasNext

    override fun nextUInt(): UInt {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}

/**
 * An iterator over a sequence of values of type `UByte`. 
 */
private class UByteIterator : Iterator<UByte> {
    override final fun next() = nextUByte()

    public abstract fun nextUByte(): UByte
}

/**
 * An iterator over a sequence of values of type `UShort`. 
 */
private class UShortIterator : Iterator<UShort>
override final fun next() = nextUShort() /** Returns the next value in the sequence without boxing. */

/** An iterator over a sequence of values of type `UInt`. */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
public abstract class UIntIterator : Iterator<UInt> {
    override final fun next() = nextUInt() /** Returns the next value in the sequence without boxing. */

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextUInt(): UInt
}

/** An iterator over a sequence of values of type `ULong`. */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
public abstract class ULongIterator : Iterator<ULong> {
    override final fun next() = nextULong() /** Returns the next value in the sequence without boxing. */

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextULong(): ULong
}

/*
 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be
 * found in the license/LICENSE.txt file. */

package kotlin.ranges

import kotlin.internal.*

/**
 * A range of values of type `ULong`. */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
public class ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {
    override val start: ULong get() = first
    override val endInclusive: ULong get() = last

    override fun contains(value: ULong): Boolean = first <= value && value <= last

    override fun isEmpty(): Boolean = if (step > 0) first > last else first < last

    override fun equals(other: Any?): Boolean =
        other is ULongRange && (isEmpty() && other.isEmpty() ||
                first == other.first && last == other.last &&
                (step xor (step ushr 32)).toInt() == 0)

    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt())

    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"

    companion object {

        /**
         * Creates ULongProgression within the specified bounds of a closed range.
         *
         * `step` must be greater than `Long.MIN_VALUE` and not equal to zero.
         */
        public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)
    }
}

/**
 * An iterator over a progression of values of type `ULong`. 
 * @property step the number by which
 * the value is incremented on each step.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
private class ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private val step = step.toULong() // use 2-complement math for negative steps
    private var next = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextULong(): ULong {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}

"
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a: UInt, b: UInt): UInt {
    return minOf(a, b)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a: ULong, b: ULong): ULong {
    return minOf(a, b)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun max(a: UInt, b: UInt): UInt {
    return maxOf(a, b)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun max(a: ULong, b: ULong): ULong {
    return maxOf(a, b)
}
```

The number of set bits in the binary representation of this [UInt] number.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.countOneBits(): Int = toInt().countOneBits()

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULong.countOneBits(): Int = toLong().countOneBits()

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULong.countLeadingZeroBits(): Int = toInt().countLeadingZero Bits()

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULong.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()
```

Counts the number of set bits in the binary representation of this [ULong] number.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULong.rotateLeft(bitCount: Int): ULong {
    return toInt().rotateLeft(bitCount).toULong()
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULong.rotateRight(bitCount: Int): ULong {
    return toInt().rotateRight(bitCount).toULong()
}
```

Counts the number of set bits in the binary representation of this [ULong] number.
public inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()

/**
 * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.
 * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
 * Rotating by a negative bit count is the same as rotating it left by the negated bit count
 */

public inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()

/**
 * Counts the number of set bits in the binary representation of this [UByte] number.
 */

public inline fun UByte.countOneBits(): Int = toByte().countOneBits()

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.
 */

public inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.
 */

public inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number.
 */

public inline fun UByte.takeHighestOneBit(): UByte = toShort().takeHighestOneBit().toUByte()

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [UByte] number.
 */

public inline fun UByte.takeLowestOneBit(): UByte = toShort().takeLowestOneBit().toUByte()

/**
 * Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits.
 * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count
 */

public inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()

/**
 * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.
 * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count
 */

public inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()
validation on passed parameters is performed. The given parameters should satisfy the condition:

- either `step > 0` and `start <= end`,
- or `step < 0` and `start >= end`.

The given parameters should satisfy the condition:

- either `step > 0` and `start <= end`,
- or `step < 0` and `start >= end`.

@Param end

* @param start first element of the progression
* @return the final element of the progression

@Suppress

*\n\n*\n\n*/
@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from \[start\] to \[end\] in case of a positive \[step\], or from \[end\] to \[start\] in case of a negative\n * \[step\].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - \(step > 0\) and \(start <= end\),
 * - or \(step < 0\) and \(start >= end\).
 *
 * @param start first element of the progression
 * @param end ending bound for the progression
 * @param step increment, or difference of successive elements in the progression
 * @return the final element of the progression
 * @suppress

*\n\n*\n\n*/
@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toULong())
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

@file:kotlin.jvm.JvmName("UStringsKt") // string representation of unsigned numbers

package kotlin.text

/**
 * Returns a string representation of this \[Byte\] value in the specified \[radix\].
 * @throws IllegalArgumentException when \[radix\] is not a valid radix for number to string conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)

/**
 * Parses the string as a signed \[UByte\] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a signed \[UByte\] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when \[radix\] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as a \[UShort\] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when \[radix\] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShort(): UShort = toUShortOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a \[UShort\] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when \[radix\] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatError(this)
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUShort(radix: Int): UShort =
toUShortOrNull(radix) ?: numberFormatException(this)\n  \* Parses the string as an [UInt] number and returns the result.
\* \@throws NumberFormatException if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUInt(): UInt =
toUIntOrNull() ?: numberFormatException(this)\n  \* Parses the string as an [UInt] number and returns the result.
\* \@throws NumberFormatException if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toULong(): ULong =
toULongOrNull() ?: numberFormatException(this)\n  \* Parses the string as a [ULong] number and returns the result.
\* \@throws NumberFormatException if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUByteOrNull(): UByte? =
toUByteOrNull(radix = 10)\n  \* Parses the string as an [UByte] number and returns the result\n  \* or `null` if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUShortOrNull(): UShort? =
toUShortOrNull(radix = 10)\n  \* Parses the string as an [UShort] number and returns the result\n  \* or `null` if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUIntOrNull(): UInt? =
toUIntOrNull(radix = 10)\n  \* Parses the string as an [UInt] number and returns the result\n  \* or `null` if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toULongOrNull(): ULong? =
toULongOrNull(radix = 10)\n  \* Parses the string as an [ULong] number and returns the result\n  \* or `null` if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUByteOrNull(radix: Int): UByte? =
    val int = this.toUIntOrNull(radix) ?: return null
    if (int > UByte.MAX_VALUE) return null
    return int.toUByte()

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUShortOrNull(radix: Int): UShort? =
    val int = this.toUIntOrNull(radix) ?: return null
    if (int > UShort.MAX_VALUE) return null
    return int.toUShort()

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUIntOrNull(radix: Int): UInt? =
    checkRadix(radix)
    val length = this.length
    if (length == 0) return null
    val limit: UInt = UInt.MAX_VALUE
    var limitBeforeMul = limitForMaxRadix
    val uradix = radix.toUInt()
    var result = 0u
    for (i in start until length) {
        val digit = digitOf(this[i], radix)
        if (digit < 0) return null
        if (result > limitBeforeMul) {
            if (limitBeforeMul == limitForMaxRadix) {
                limitBeforeMul = limit / uradix
                if (result > limitBeforeMul) {
                    return null
                }
            } else {
                return null
            }
        }
        result *= uradix
        result += digit.toUInt()
    }
    return result

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toULongOrNull(): ULong? =
toULongOrNull(radix = 10)\n  \* Parses the string as an [ULong] number and returns the result\n  \* or `null` if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUByteOrNull(): UByte?
  \* Parses the string as an [UByte] number and returns the result\n  \* or `null` if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUShortOrNull(): UShort?
  \* Parses the string as an [UShort] number and returns the result\n  \* or `null` if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toUIntOrNull(): UInt?
  \* Parses the string as an [UInt] number and returns the result\n  \* or `null` if the string is not a valid representation of a number.

*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes*\@public fun String.toULongOrNull(): ULong?
  \* Parses the string as an [ULong] number and returns the result\n  \* or `null` if the string is not a valid representation of a number.
IllegalArgumentException when `radix` is not a valid radix for string to number conversion.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULongOrNull(radix: Int): ULong?

val length = this.length
if (length == 0) return null
val limit = ULong.MAX_VALUE
val start: Int = if (firstChar >= '0') 1 else (firstChar < '0')
val limitForMaxRadix = 512409557603043100uL
if (digit < 0) return null
if (result > limitBeforeMul) { return null
    if (limitBeforeMul == limitForMaxRadix)
        limitBeforeMul = limit / uradix
    result += digit.toUInt()
    if (result < origin) return null
}

return result
```

---

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```
@file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
package kotlin

import kotlin.annotation.AnnotationTarget.*
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind

/**
 * Marks the API that is dependent on the experimental unsigned types, including those types themselves.
 */
@Suppress("DEPRECATION")
@Experimental(level = Experimental.Level.WARNING)
@RequiresOptIn(level = RequiresOptIn.Level.WARNING)
@MustBeDocumented
@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)
@Retention(AnnotationRetention.BINARY)
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILE_ONLY_VERSION)
@Retention(AnnotationRetention.CLASS)

/**
 * Computes the sine of the angle `x` given in radians.
 */
public expect fun sin(x: Double): Double

/**
 * Computes the cosine of the angle `x` given in radians.
 */
public expect fun cos(x: Double): Double

/**
 * Computes the arc sine of the value `x` given in radians.
 */
public expect fun asin(x: Double): Double

/**
 * Computes the arc cosine of the value `x` given in radians.
 */
public expect fun acos(x: Double): Double

/**
 * Computes the arc tangent of the value `x` given in radians.
 */
public expect fun atan(x: Double): Double
```

---

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```
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MathKt")

package kotlin.math

/**
 * Computes the sine of the angle `x` given in radians.
 */
public expect fun sin(x: Double): Double

/**
 * Computes the cosine of the angle `x` given in radians.
 */
public expect fun cos(x: Double): Double

/**
 * Computes the arc sine of the value `x` given in radians.
 */
public expect fun asin(x: Double): Double

/**
 * Computes the arc cosine of the value `x` given in radians.
 */
public expect fun acos(x: Double): Double

/**
 * Computes the arc tangent of the value `x` given in radians.
 */
public expect fun atan(x: Double): Double
```

---

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```
@file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
package kotlin

import kotlin.annotation.AnnotationTarget.*
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind

/**
 * Marks the API that is dependent on the experimental unsigned types, including those types themselves.
 */
@Suppress("DEPRECATION")
@Experimental(level = Experimental.Level.WARNING)
@RequiresOptIn(level = RequiresOptIn.Level.WARNING)
@MustBeDocumented
@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)
@Retention(AnnotationRetention.BINARY)
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILE_ONLY_VERSION)
@Retention(AnnotationRetention.CLASS)

/**
 * Computes the sine of the angle `x` given in radians.
 */
public expect fun sin(x: Double): Double

/**
 * Computes the cosine of the angle `x` given in radians.
 */
public expect fun cos(x: Double): Double

/**
 * Computes the arc sine of the value `x` given in radians.
 */
public expect fun asin(x: Double): Double

/**
 * Computes the arc cosine of the value `x` given in radians.
 */
public expect fun acos(x: Double): Double

/**
 * Computes the arc tangent of the value `x` given in radians.
 */
public expect fun atan(x: Double): Double
```

---

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```
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MathKt")

package kotlin.math

/**
 * Computes the sine of the angle `x` given in radians.
 */
public expect fun sin(x: Double): Double

/**
 * Computes the cosine of the angle `x` given in radians.
 */
public expect fun cos(x: Double): Double

/**
 * Computes the arc sine of the value `x` given in radians.
 */
public expect fun asin(x: Double): Double

/**
 * Computes the arc cosine of the value `x` given in radians.
 */
public expect fun acos(x: Double): Double

/**
 * Computes the arc tangent of the value `x` given in radians.
 */
public expect fun atan(x: Double): Double
```

---

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```
@file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
package kotlin

import kotlin.annotation.AnnotationTarget.*
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind

/**
 * Marks the API that is dependent on the experimental unsigned types, including those types themselves.
 */
@Suppress("DEPRECATION")
@Experimental(level = Experimental.Level.WARNING)
@RequiresOptIn(level = RequiresOptIn.Level.WARNING)
@MustBeDocumented
@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)
@Retention(AnnotationRetention.BINARY)
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILE_ONLY_VERSION)
@Retention(AnnotationRetention.CLASS)

/**
 * Computes the sine of the angle `x` given in radians.
 */
public expect fun sin(x: Double): Double

/**
 * Computes the cosine of the angle `x` given in radians.
 */
public expect fun cos(x: Double): Double

/**
 * Computes the arc sine of the value `x` given in radians.
 */
public expect fun asin(x: Double): Double

/**
 * Computes the arc cosine of the value `x` given in radians.
 */
public expect fun acos(x: Double): Double

/**
 * Computes the arc tangent of the value `x` given in radians.
 */
public expect fun atan(x: Double): Double
```
the smallest double value that is greater than or equal to the given value \(x\).

\[
\ln1p(x) = \ln(x + 1)
\]

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun log(x: Double, base: Double): Double
```

Computes the logarithm of the value \(x\) to the given \(base\).

Special cases:
- \(\log(x, b)\) is `NaN` when \(x < 0\) or \(b <= 0\) or \(b == 1.0\)
- \(\log(+Inf, b)\) is `+Inf` for \(b > 1\) and `-Inf` for \(b < 1\)
- \(\log(0.0, b)\) is `-Inf` for \(b > 1\) and `+Inf` for \(b < 1\)
- \(\log(0.0, 1.0)\) is `-Inf`

Computes the binary logarithm (base 2) of the value \(x\).

```kotlin
@SinceKotlin("1.2")
public expect fun log2(x: Double): Double
```

Computes the common logarithm (base 10) of the value \(x\).

```kotlin
@SinceKotlin("1.2")
public expect fun log10(x: Double): Double
```

Computes the natural logarithm (base \(e\)) of the value \(x\).

```kotlin
@SinceKotlin("1.2")
public expect fun log(x: Double): Double
```

`ln1p` is defined as \(\ln(x + 1)\) for positive values of \(x\).

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

There are special cases for the `ln1p` function:
- `ln1p(NaN)` is `NaN`
- `ln1p(0)` is `+0.0`
- `ln1p(-Inf)` is `-Inf`
- `ln1p(+Inf)` is `+Inf`

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

Rounds the given value \(x\) to an integer towards positive infinity.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

This function can be implemented to produce more precise result for \(x\) near zero.

```kotlin
@SinceKotlin("1.2")
public expect fun ln1p(x: Double): Double
```

This function can be implemented to produce more precise result for \(x\) near zero.
Special cases:
- `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
- `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
- `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
Long.MAX_VALUE\n* - 'x.roundToLong()' == Long.MIN_VALUE' when \`x < Long.MIN_VALUE\n* @throws IllegalArgumentException when this value is 'NaN\n* \@SinceKotlin("1.2")\n\npublic expect fun Double.roundToLong(): Long\n\n

\n\n
```kotlin
// endregion


// region ================ Float Math

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

/** Computes the sine of the angle [x] given in radians.\n*   - `sin(NaN|+Inf|-Inf)` is 'NaN\n*   - `sin(x)` is 'NaN' when \`abs(x) > 1` or x is 'NaN\n* \@SinceKotlin("1.2")\n\npublic expect fun sin(x: Float): Float\n\n

\n\n
```
Float\n\n\n/**
 * Rounds this [Float] value to the nearest integer and converts the result to [Int].
 * Ties are rounded towards positive infinity.
 */
@SinceKotlin("1.2")
public expect fun Float.roundToInt(): Int

/**
 * Rounds this [Float] value to the nearest integer and converts the result
 * to [Long].
 */
@SinceKotlin("1.2")
public expect fun Float.roundToLong(): Long

// endregion

// region

/**
 * Returns the absolute value of the given value [n].
 */
@SinceKotlin("1.2")
public expect val Int.absoluteValue: Int

/**
 * Returns the sign of this value:
 *   - `-1` if the value is negative,
 *   - `0` if the value is zero,
 *   - `1` if the value is positive
 */
@SinceKotlin("1.2")
public expect val Int.sign: Int

// endregion

// region Integer Math

/**
 * Returns the absolute value of the given value [n].
 */
@SinceKotlin("1.2")
public expect fun Long.absoluteValue: Long

/**
 * Returns the sign of this value:
 */
@SinceKotlin("1.2")
public expect val Long.sign: Int

// endregion

// endregion

// region

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yKM,mBAAN,KAAM,C;MAAb,OAA0C,UAAJ,GAAGb,2BAAS,EAAT,CAAhB,GAACk,C;K;IAG5E,uC;MgB5
KW,ShBkLM,oBAAN,KAAM,C;MAAb,OAAC,UA AJ,GAAbg,2BAAS,EAAT,CAAhB,GAACk,C;K;IAG7E,uC
;MgBrLW,ShB2LM,oBAAN,KAAM,C;MAAh,OAAC2,UA AJ,GAAbg,2BAAS,EAAT,CAAhB,GAACk,C;K;IAG7
E,uC;MgB9LW,ShB0MM,qBAAN,KAAM,C;MAAb,OAAC4,UA AJ,GAAbg,2BAAS,EAAT,CAAhB,GAACk,C;
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AU,CAAV,EAAa,KAAb,EAaOb,gbBAAPC,C;OAGJ,YAAY,KAAa,CAaP,KAAO,C;MACzB,IAAI,SAAU,EAaV,C;MAAb,B,CAaR,C;QACLIAIAL,SAAU,GAaV,KAAb,GAaTB,C;UAEI,OAoA,UAAU,CAaV,EAaA,KAAb,EAaEoB,gbBAAPC,C;CgBAER,IAAL,SAAU,EAaV,IAaQb,CAaPC,C;QACH,IAAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;CgBAER,IAAL,SAAU,GAaV,KAAa,GAAV,MAaK,GAaTB,C;UAEI,OAoA,UAAU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;OAXE,YAAAY,KAAb,CAAX,QAaQ,CAAR,IAAaW,C;MAC7B,IAAI,SAAU,GAaV,MAaK,GAaTB,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;OAXE,YAAAY,KAAAI,SAAU,GAaV,MAaK,GAaTB,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;OAXE,YAAAY,KAAAI,SAAU,GAaV,MAaK,GAaTB,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;OAXE,YAAAY,KAAAI,SAAU,GAaV,MAaK,GAaTB,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;QAQLOAO,UAaU,CAAV,EAAa,KAAaEoB,gbBAAPC,C;OAXE,YAAAY,KAAAI,SAAU,GAaV,MAaK,GAaTB,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;OAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;OAXE,YAAAY,KAAAI,SAAU,GAaV,MAaK,GAaTB,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;OAXE,YAAAY,KAAAI,SAAU,GAaV,MAaK,GAaTB,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,C;QAQLOAO,UAaU,CAAV,EAAa,KAAb,EAaEoB,gbBAAPC,
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2.2.6.RELEASE

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* /opt/cola/permits/1150251161_1627682341.25/0/spring-boot-loader-tools-2-2-6-release-sources-jar/org/springframework/boot/loader/tools/LogbackInitializer.java
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* /opt/cola/permits/1150251161_1627682341.25/0/spring-boot-loader-tools-2-2-6-release-sources-jar/org/springframework/boot/loader/tools/MainClassFinder.java
* /opt/cola/permits/1150251161_1627682341.25/0/spring-boot-loader-tools-2-2-6-release-sources-jar/org/springframework/boot/loader/tools/RepackagingLayout.java
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* /opt/cola/permits/1150251161_1627682341.25/0/spring-boot-loader-tools-2-2-6-release-sources-jar/org/springframework/boot/loader/tools/LoaderClassesWriter.java
* /opt/cola/permits/1150251161_1627682341.25/0/spring-boot-loader-tools-2-2-6-release-sources-jar/org/springframework/boot/loader/tools/CustomLoaderLayout.java

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DomainDataRegion buildDomainDataRegion('}

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* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/LazyList.java
* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/MultiException.java
* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/resource/JarFileResource.java
* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/security/Credential.java
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* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/resource/BadResource.java
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* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/preventers/AWTLeakPreventer.java
* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/FutureCallback.java
* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/IoCallback.java

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jar/org/eclipse/jetty/util/InetAddressSet.java
* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/Scanner.java
* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/resource/FileResource.java
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* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/Utf8StringBuffer.java
* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/log/JavaUtilLog.java
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* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/component/AbstractLifeCycle.java

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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &amp;
 * 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &amp;
 * 2=DC_CONFIDENTIAL
 */

Found in path(s):
* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources-jar/org/eclipse/jetty/util/security/Constraint.java
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/*
 * @(#)UnixCrypt.java 0.9 96/11/25
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 */

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* /opt/cola/permits/1125706572_1611440469.63/0/jetty-util-9-4-11-v20180605-sources-jar/org/eclipse/jetty/util/security/UnixCrypt.java
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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard {link java.lang.Appendable} and provides methods to append UTF-8 encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to {link #append(byte)} may be needed before a character is appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 *
 * License information for Bjoern Hoehrmann's code:
 *
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1.1712 managementehcache 2.10.6

1.1713 wildfly-elytron-sasl-plain 1.10.3.Final

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  jar/org/wildfly/security/sasl/plain/WildFlyElytronSaslPlainProvider.java

1.1714 perl-getopt-long 2.40 3.el7

1.1715 maven-artifact 2.0.4
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* /opt/ws_local/PERMITS_SQL/1033881695_1591375540.74/0/maven-artifact-2-0-4-sources-jar/org/apache/maven/artifact/resolver/ArtifactResolutionResult.java
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* /opt/ws_local/PERMITS_SQL/1033881695_1591375540.74/0/maven-artifact-2-0-4-sources-jar/org/apache/maven/artifact/resolver/ArtifactNotFoundException.java
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1.1716 wildfly-elytron-realm-jdbc 1.10.3.Final

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* /opt/cola/permits/1150251269_1627682361.37/0/wildfly-elytron-realm-jdbc-1-10-3-final-sources-jar/org/wildfly/security/auth/realm/jdbc/QueryConfiguration.java
* /opt/cola/permits/1150251269_1627682361.37/0/wildfly-elytron-realm-jdbc-1-10-3-final-sources-jar/org/wildfly/security/auth/realm/jdbc/mapper/AttributeMapper.java
* /opt/cola/permits/1150251269_1627682361.37/0/wildfly-elytron-realm-jdbc-1-10-3-final-sources-jar/org/wildfly/security/auth/realm/jdbc/KeyMapper.java
1.1717 jcmtturner-gokrb v7.5.0

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cmd krb5/kadmin/server/ipropd_svc.c
cmd krb5/kproplog/kproplog.c
cmd krb5/slave/kpropd_rpc.c
lib gss_mechs/mech_krb5/et/kdb5_err.c
lib gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib gss_mechs/mech_spnego/mech/spnego_mech.c
lib krb5/kadm5/kadm_host_srv_names.c
lib krb5/kdb/kdb_convert.c
lib krb5/kdb/kdb_hdr.h
lib krb5/kdb/kdb_log.c
lib krb5/kdb/kdb_log.h
lib libgss/g_accept_sec_context.c
lib libgss/g_acquire_cred.c
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lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplgc.c

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
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* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
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  Configuration file converter.
  Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

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2.9.9

1.1734 jboss-metadata-ear 10.0.0.Final

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1.1736 libpcap 1.5.3 12.el7

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1.1738 glib 2.56.1-9.el7_9.0atomix1

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* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/SerializableParameterFactories.java

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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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
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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.

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1.1749 zlib 1.6.35
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1.1750 libunistring 0.9.3 9.el7

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  jar/org/springframework/ui/ModelExtensions.kt
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/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *<p>Exposes the {code MBeanServer} for bean references.
 *<p>This {code FactoryBean} is a direct alternative to {link MBeanServerFactoryBean},
 *which uses standard JMX 1.2 API to access the platform's {link MBeanServer}.
 *<p>See the javadocs for WebSphere's
 *<author Juergen Hoeller</author>
 *<author Rob Harrop</author>
 *<since 2.0.3</since>
 *{@see javax.management.MBeanServer</see>
 *<see MBeanServerFactoryBean</see>
 */

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 */
/**
 * Indicates that a component is only eligible for registration when all
 *  [@linkplain #value specified conditions] match.
 * 
 * <p>A <em>condition</em> is any state that can be determined programmatically
 * before the bean definition is due to be registered (see [@link Condition] for details).
 * 
 * <p>The [@code @Conditional] annotation may be used in any of the following ways:
 *  <ul>
 *   <li>as a type-level annotation on any class directly or indirectly annotated with
 *       [@code @Component], including [@link Configuration @Configuration] classes</li>
 *   <li>as a meta-annotation, for the purpose of composing custom stereotype
 *       annotations</li>
 *   <li>as a method-level annotation on any [@link Bean @Bean] method</li>
 *  </ul>
 * 
 * <p>If a [@code @Configuration] class is marked with [@code @Conditional],
 * all of the [@code @Bean] methods, [@link Import @Import] annotations, and
 * [@link ComponentScan @ComponentScan] annotations associated with that
 * class will be subject to the conditions.
 * 
 * <p>&lt;strong&gt;&lt;strong&gt;NOTE&lt;/strong&gt;&lt;/strong&gt;: Inheritance of [@code @Conditional] annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * [@code @Conditional] itself is not declared as
 * [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
 * custom &lt;em&gt;composed annotation&lt;/em&gt; that is meta-annotated with
* [@code @Conditional] must not be declared as [@code @Inherited].
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
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* /opt/cola/permits/1150250667_1627682334.43/spring-context-5-2-0-release-sources-1-
jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
* /opt/cola/permits/1150250667_1627682334.43/spring-context-5-2-0-release-sources-1-
jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
* /opt/cola/permits/1150250667_1627682334.43/spring-context-5-2-0-release-sources-1-
jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
* /opt/cola/permits/1150250667_1627682334.43/spring-context-5-2-0-release-sources-1-
jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/cola/permits/1150250667_1627682334.43/spring-context-5-2-0-release-sources-1-
jar/org/springframework/jmx/export/annotation/ManagedResource.java
* /opt/cola/permits/1150250667_1627682334.43/spring-context-5-2-0-release-sources-1-
jar/org/springframework/jmx/export/annotation/ManagedNotification.java
* /opt/cola/permits/1150250667_1627682334.43/spring-context-5-2-0-release-sources-1-
jar/org/springframework/cache/annotation/CacheConfig.java
* /opt/cola/permits/1150250667_1627682334.43/spring-context-5-2-0-release-sources-1-
jar/org/springframework/scripting/ScriptEvaluator.java
* /opt/cola/permits/1150250667_1627682334.43/spring-context-5-2-0-release-sources-1-
jar/org/springframework/context/annotation/ImportResource.java
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  */
  /**
   * Abstract the invocation of a cache operation.
   *
   * <p>Does not provide a way to transmit checked exceptions but
   * provide a special exception that should be used to wrap any
   * exception that was thrown by the underlying invocation.
   * Callers are expected to handle this issue type specifically.
   */
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* @author Stephane Nicoll
* @since 4.1
*/

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* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-jar/org/springframework/validation/validation/AnnotationFormatterFactory.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-jar/org/springframework/context/ApplicationContext.java
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  jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/context/config/SpringConfiguredBeanDefinitionParser.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/ui/context/HierarchicalThemeSource.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/context/config/ApplicationContextAware.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/validation/BindingResultUtils.java
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  jar/org/springframework/context/config/ContextNamespaceHandler.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/remoting/RemoteLookupFailureException.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/jmx/export/MBeanExportException.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/scheduling/jmx/access/MBeanConnectFailureException.java
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  jar/org/springframework/ui/context/ThemeSource.java
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  jar/org/springframework/validation/MessageCodesResolver.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/remoting/RemoteInvocationFailureException.java
* /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1-
  jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
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/ * /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1.jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
/ * /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1.jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
/ * /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1.jar/org/springframework/cache/annotation/CacheEvict.java
/ * /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1.jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
/ * /opt/cola/permits/1150250667_1627682334.43/0/spring-context-5-2-0-release-sources-1.jar/org/springframework/cache/support/CompositeCacheManager.java
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1.1756 commons-logging-api 1.1

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1.1760 postgresql-jdbc 42.2.18

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/annotations/Beta.java
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*/
/**
* Holder for extra methods of { @code Objects} only in web. Intended to be empty for regular
* version.
*/

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  jar/com/google/common/collect/ForwardingDeque.java
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  jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/primitives/Ints.java
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  jar/com/google/common/base/Stopwatch.java
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  jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/escape/UnicodeEscaper.java
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jar/com/google/common/escape/Escaper.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/SequentialExecutor.java
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jar/com/google/common/base/CharMatcher.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collct/JdkBackedImmutableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collct/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collct/IndexedImmutableSet.java

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  jar/com/google/common/collct/Interners.java
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jar/com/google/common/graph/IncidentEdgeSet.java

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 * */

/**
 * Outer class that exists solely to let us write [ @code Partially.GwtIncompatible ] instead of plain
 * [ @code GwtIncompatible ]. This is more accurate for [ @link Futures#catching ], which is available
 * under GWT but with a slightly different signature.
 * 
 * <p>We can't use [ @code PartiallyGwtIncompatible ] because then the GWT compiler wouldn't recognize
 * it as a [ @code GwtIncompatible ] annotation. And for [ @code Futures.catching ], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 * */

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jar/com/google/common/util/concurrent/Partially.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberRegistry.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/HashBasedTable.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/RegularImmutableBiMap.java
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jar/com/google/common/collection/ImmutableMapEntrySet.java
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jar/com/google/common/collection/UnmodifiableIterator.java
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jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/Serialization.java
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jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/PeekingIterator.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/Range.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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jar/com/google/common/collect/Platform.java
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jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/JdkPattern.java
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jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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* *
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
* */

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jar/com.google/common/util/concurrent/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com.google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com.google/common/hash/LittleEndianByteArray.java
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 */
/**
 * Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
 * version.
 */

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jar/com.google/common/primitives/DoublesMethodsForWeb.java
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  jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/DiscreteDomain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/AbstractListIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableAsList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableSetMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/JdkBackedImmutableMultiset.java
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  jar/com/google/common/collection/GwtTransient.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/AtomicLongMap.java
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  jar/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/Count.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/AbstractRangeSet.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingLock.java

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/**
 * Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
/*
 * version.
 */

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jar/com/google/common/primitives/FloatsMethodsForWeb.java
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jar/com/google/common/primitives/Platform.java
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jar/com/google/common/collection/ImmutableMapEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/MultimapBuilder.java

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jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/Runnables.java
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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 */
Returns an array containing all of the elements in the specified collection. This method
returns the elements in the order they are returned by the collection's iterator. The returned
array is "safe" in that no references to it are maintained by the collection. The caller is
thus free to modify the returned array.

This method assumes that the collection size doesn't change while the method is running.

TODO(kevinb): support concurrently modified collections?

@param c the collection for which to return an array of elements

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  jar/com/google/common/collection/ObjectArrays.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingListMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-

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jar/com/google/common/cache/LongAddables.java
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jar/com/google/common/math/StatsAccumulator.java
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jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Element.java
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jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/AbstractInvocationHandler.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/reflection/Parameter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/reflection/Invokable.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/Network.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/MutableGraph.java
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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *     ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

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  jar/com/google/common/collection/AbstractSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/math/IntMath.java
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  jar/com/google/common/collection/EmptyContiguousSet.java
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  jar/com/google/common/cache/CacheStats.java
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  jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/hash/Murmur3_128HashFunction.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/RegularContiguousSet.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/hash/AbstractCompositeHashFunction.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashCode.java
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jar/com/google/common/collect/LinkedListMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/MapMaker.java
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jar/com/google/common/collect/SparseImmutableTable.java
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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5.jar/com/google/errorprone/annotations/FormatString.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5.jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5.jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5.jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5.jar/com/google/errorprone/annotations/CompatibleWith.java

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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/RequiredModifiers.java
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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/ForOverride.java

### 1.1764 elasticsearch-rest-high-level-client

#### 6.8.5

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1.1765 commons-beanutils 1.6

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* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexWriterV1.java
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  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
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    </xsl:text>
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  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
          <xsl:text> </xsl:text>
          <xsl:value-of select="holder"/>
          <xsl:value-of select="$isc.copyright.breakline"/>
        </xsl:for-each>
        <xsl:value-of select="$isc.copyright.text"/>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
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SNMP4J 2 - PropertiesTlsTmSecurityCallback.java

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* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/AuthHMAC256SHA384.java
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* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
  jar/org/springframework/expression/spel/SpelCompilerMode.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
  jar/org/springframework/expression/spel/CompilablePropertyAccessor.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
  jar/org/springframework/expression/spel/standard/SpelExpressionParser.java

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* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
  jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-

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jar/org/springframework/expression/spel/ast/InlineList.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
jar/org/springframework/expression/spel/ast/OpGE.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
jar/org/springframework/expression/spel/ast/OpInc.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
jar/org/springframework/expression/spel/ast/NullLiteral.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
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* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
jar/org/springframework/expression/spel/ast/LongLiteral.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
jar/org/springframework/expression/spel/ast/FloatLiteral.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-
jar/org/springframework/expression/spel/ast/OpDec.java
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* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-jar/org/springframework/expression/ExpressionParser.java

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* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-jar/org/springframework/expression/ExpressionInvocationTargetException.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-jar/org/springframework/expression/common/TemplateParserContext.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-jar/org/springframework/expression/ConstructorExecutor.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-jar/org/springframework/expression/MethodExecutor.java
* /opt/cola/permits/1150251111_1627682333.57/0/spring-expression-5-2-0-release-sources-1-jar/org/springframework/expression/MethodResolver.java

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File: orm-busy.trace.xz
Description: Database object access of a e-commerce web application during a busy daytime.

File: orm-night.trace.xz
Description: Database object access of a e-commerce web application during the night time.

File: web07.trace.xz
Description: Normalized access trace (HTTP requests) a product detail page in July 2013.

File: web12.trace.xz
Description: Normalized access trace (HTTP requests) on a product detail page in December 2013.

Format: The accessed objects comprise of a mixture of product inventory, availability per price and also customer data. Objects are keyed by type, id and a index (e.g. the 3rd price of a product). All data is normalized into numbers starting at 0 (or 1 for sub-ids) and then collapsed into a single integer consisting of,
- Bits 27-31: type
- Bits 9-26: id
- Bits 0-9: index

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1.1813 jetty-io 9.4.39.v20210325

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.eclipse.jetty.toolchain:jetty-schemas
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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.salomanta@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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*/opt/cola/permits/1110676916_1606844031.03/0/netty-buffer-4-1-39-final-sources-1-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java

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* /opt/cola/permits/1110676916_1606844031.03/0/netty-buffer-4-1-39-final-sources-1.jar/io/netty/buffer/ByteBufHolder.java
* /opt/cola/permits/1110676916_1606844031.03/0/netty-buffer-4-1-39-final-sources-1.jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java

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* /opt/cola/permits/1110676916_1606844031.03/0/netty-buffer-4-1-39-final-sources-1.jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
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  jar/io/netty/buffer/UnpooledSlicedByteBuf.java
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  jar/io/netty/buffer/PooledDirectByteBuf.java
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* /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources.jar/org/springframework/data/jdbc/core/convert/DelegatingDataAccessStrategy.java

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 * /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
jar/org/springframework/data/jdbc/core/convert/JdbcValue.java
 * /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
jar/org/springframework/data/jdbc/core/convert/DataAccessStrategy.java
 * /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
jar/org/springframework/data/jdbc/repository/config/MyBatisJdbcConfiguration.java
 * /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
jar/org/springframework/data/jdbc/core/convert/DefaultJdbcTypeFactory.java
 * /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
jar/org/springframework/data/jdbc/core/convert/JdbcConverter.java
 * /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
jar/org/springframework/data/jdbc/repository/config/MyBatisJdbcConfiguration.java
 * /opt/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
jar/org/springframework/data/jdbc/core/convert/DefaultJdbcTypeFactory.java
 * /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
jar/org/springframework/data/jdbc/repository/config/AbstractJdbcConfiguration.java
 * /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
jar/org/springframework/data/jdbc/core/convert/ArrayUtil.java
 * /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
jar/org/springframework/data/jdbc/core/convert/SqlContext.java

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  jar/org/springframework/data/jdbc/core/mapping/JdbcSimpleTypes.java
* /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
  jar/org/springframework/data/jdbc/repository/RowMapperMap.java
* /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
  jar/org/springframework/data/jdbc/repository/query/Query.java
* /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
  jar/org/springframework/data/jdbc/repository/query/Modifying.java
* /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
  jar/org/springframework/data/jdbc/repository/config/EnableJdbcAuditing.java
* /opt/cola/permits/1150251170_1627682058.7/0/spring-data-jdbc-1-1-6-release-sources-
  jar/org/springframework/data/jdbc/repository/config/JdbcAuditingRegistrar.java

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PACoMGBF/milter-regex-2.4.tar.gz-cosi-expand-archive-spTobCnu/milter-regex-2.4/eval.c
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PACoMGBF/milter-regex-2.4.tar.gz-cosi-expand-archive-spTobCnu/milter-regex-2.4/parse.y
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1.1838 springdoc-openapi-webmvc-core 1.5.9

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Bundle-SymbolicName: io.netty.buffer
Implementation-Version: 4.1.53.Final
Built-By: root
Bnd-LastModified: 1602570733420
Bundle-ManifestVersion: 2
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Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee:filter="(&!(osgi.ee=JavaSE)(version=1.6))"
1.1840 lucene-join 7.4.0
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* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessorAdapter.java
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* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/config/BeanDefinitionHolder.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/annotation/Autowire.java
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* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/BeanWrapper.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
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* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/ListableBeanFactory.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/BeanWrapper.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
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- javaee_6.xsd
- 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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1.1863 orm-core 5.4.12.Final

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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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>>> org.sonatype.plexus:plexus-sec-dispatcher
>>> commons-logging:commons-logging
>>> org.codehaus.groovy:groovy
>>> org.apache.maven:maven-aether-provider
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>>> org.apache.maven:maven-model-builder
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>>> org.apache.maven:maven-settings
>>> org.apache.maven:maven-settings-builder
>>> org.codehaus.plexus:plexus-component-annotations
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1.1870 jackson-dataformat-cbor 2.10.3

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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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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.

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

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file (certdata.txt). This file can be found in the mozilla source tree:
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* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1-jar/com/github/difflib/algorithm/jgit/HistogramDiff.java
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* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1-
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* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4.0-sources-1-
ar/com/github/difflib/algorithm/myers/MyersDiff.java
* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4.0-sources-1-
ar/com/github/difflib/patch/Chunk.java
* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4.0-sources-1-
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* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4.0-sources-1-
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ar/com/github/difflib/text/StringUtils.java
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ar/com/github/difflib/patch/PatchFailedException.java
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ar/com/github/difflib/DiffUtils.java
* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4.0-sources-1-jar/com/github/difflib/patch/DeleteDelta.java
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  jar/org/springframework/classify/BinaryExceptionClassifier.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/policy/SimpleRetryPolicy.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/classify/SubclassClassifier.java

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* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/annotation/Backoff.java
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  jar/org/springframework/retry/annotation/EnableRetry.java

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  jar/org/springframework/retry/stats/StatisticsListener.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/stats/DefaultStatisticsRepository.java
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jar/org/springframework/retry/interceptor/RetryInterceptorBuilder.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
jar/org/springframework/retry/annotation/RetryConfiguration.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
jar/org/springframework/retry/backoff/ThreadWaitSleeper.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
jar/org/springframework/retry/annotation/Retryable.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
jar/org/springframework/retry/backoff/NoBackOffPolicy.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
jar/org/springframework/classify/util/SimpleMethodInvoker.java

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  jar/org/springframework/retry/backoff/UniformRandomBackOffPolicy.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/context/RetryContextSupport.java
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  jar/org/springframework/retry/support/RetryTemplate.java
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  jar/org/springframework/retry/backoff/FixedBackOffPolicy.java
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  jar/org/springframework/retry/context/RetryContextSupport.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/support/RetryTemplate.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/backoff/FixedBackOffPolicy.java
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* /opt/cola/permits/141907560_161522998.79/0/qdox-2.0-m9-sources-jar/com/thoughtworks/qdox/parser/expression/CreatorDef.java
1.1889 java-api 1.1

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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ParameterExpansionContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/OperationModelContextsBuilder.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ParameterContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ModelContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/RequestHandlerCombiner.java

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  jar/springfox/documentation/spi/service/ApiListingScannerPlugin.java
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  jar/springfox/documentation/spi/service/contexts/Orderings.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/contexts/OperationContext.java
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  jar/springfox/documentation/spi/service/contexts/DocumentationContextBuilder.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/service/PathDecorator.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/ApiListingBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/service/OperationModelsProviderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/contexts/ApiSelector.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/schema/TypeNameProviderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/PathAdjuster.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/ParameterBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/schema/AlternateTypeProvider.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/contexts/SecurityContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/contexts/Defaults.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/ExpandedParameterBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/OperationBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/schema/EnumTypeDeterminer.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/contexts/PathContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/contexts/ApiListingContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-
  jar/springfox/documentation/spi/service/contexts/SecurityContext.java
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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/ParameterMetadataAccessor.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/DocumentationPlugin.java

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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/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.
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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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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
  jar/io/swagger/v3/oas/annotations/security/SecurityRequirements.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
  jar/io/swagger/v3/oas/annotations/security/OAuthFlows.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
  jar/io/swagger/v3/oas/annotations/media/Encoding.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
  jar/io/swagger/v3/oas/annotations/tags/Tag.java
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  jar/io/swagger/v3/oas/annotations/media/Content.java
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  jar/io/swagger/v3/oas/annotations callbacks/Callback.java
1.1911 aggs-matrix-stats-client 6.8.3

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1.1912 wildfly-elytron-mechanism-http

1.10.3.Final

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1.1915 resteasy-jax-rs 3.6.3.SP1
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* /opt/cola/permits/1150251466_1627682060.29/0/resteasy-jaxrs-3-6-3-sp1-sources-jar/org/jboss/resteasy/util/PortProvider.java
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/**
* Any exception thrown by a MessageBodyWriter chain that is not an instance of a WriterException is caught internally
* by the Resteasy runtime and wrapped with an instance of WriterException.
* 
* If you want to have special exception handling for exceptions thrown by MessageBodyWriters and their interceptors, then write an exception
* mapper for WriterException.
* 
* Also, you may extend this class and throw instances of it from your MessageBodyWriters (and interceptors)
* 
* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
* @version $Revision: 1 $
*/

Found in path(s):
* /opt/cola/permits/1150251466_1627682060.29/0/resteasy-jaxrs-3-6-3-sp1-sources-jar/org/jboss/resteasy/spi/WriterException.java
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/**
* Any exception thrown by a MessageBodyReader chain that is not an instance of a ReaderException is caught internally
* by the Resteasy runtime and wrapped with an instance of ReaderException.
* 
* If you want to have special exception handling for exceptions thrown by MessageBodyReaders, then write an exception
* mapper for ReaderException.
* 
* Also, you may extend this class and throw instances of it from your MessageBodyReaders (and interceptors)
* 
* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
Encodes and decodes to and from Base64 notation.

Homepage: [http://iharder.net/base64](http://iharder.net/base64).

Example:

```java
String encoded = Base64.encode( myByteArray );
byte[] myByteArray = Base64.decode( encoded );
```

The `options` parameter, which appears in a few places, is used to pass
several pieces of information to the encoder. In the "higher level" methods such as
`encodeBytes( bytes, options )` the options parameter can be used to indicate such
things as first gzipping the bytes before encoding them, not inserting line feeds,
and encoding using the URL-safe and Ordered dialects.

Note, according to [RFC3548](http://www.faqs.org/rfcs/rfc3548.html), Section 2.1, implementations should not add line feeds unless explicitly told
to do so. I've got Base64 set to this behavior now, although earlier versions
broke lines by default.

The constants defined in Base64 can be OR-ed together to combine options, so you
might make a call like this:

```java
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );
```

Also...

```java
String encoded = Base64.encodeBytes( crazyString.getBytes() );
```

Change Log:

- v2.3.7 - Fixed subtle bug when base 64 input stream contained the
  value 01111111, which is an invalid base 64 character but should not
  throw an `ArrayIndexOutOfBoundsException` either. Led to discovery of
  mishandling (or potential for better handling) of other bad input
  characters. You should now get an `IOException` if you try decoding
  something that has bad characters in it.
- v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
  string ended in the last column; the buffer was not properly shrunk and
  contained an extra (null) byte that made it into the string.
- v2.3.5 - Fixed bug in `encodeFromFile` where estimated buffer size
  was wrong for files of size 31, 34, and 37 bytes.
- v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64.OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* {@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)}
* method.</li>
<li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
* footprint with its CharEncoders and so forth. Fixed some javadocs that were
* inconsistent. Removed imports and specified things like java.io.IOException
* explicitly inline.</li>
<li>v2.3.2 - Reduced memory footprint! Finally refined the “guessing” of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the { @link #encodeBytesToBytes(byte[])} family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff).</li>
<li>v2.3.1 - Added { @link #encodeBytesToBytes(byte[], int, int, int)} and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
<li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
* <ul>
* <li><em>Does not break lines, by default.</em> This is to keep in compliance with
* shame on me. All I can say is sorry they were ever there.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* Shame on me. All I can say is sorry they were ever there.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.
* This was especially annoying before for people who were thorough in their
* own projects and then had gobs of javadoc warnings on this file.</li>
* <ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~<lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* <ol>
* The default is RFC3548 format.

* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548.

* http://www.faqs.org/rfcs/rfc3548.html

* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html

* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.

* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.

* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).

* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.

* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (int that you "OR" together).

* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).

* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).

* v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams.

* v1.4 - Added helper methods to read/write files.

* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.

* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.

* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.

* v1.3.3 - Fixed I/O streams which were totally messed up.

* v1.3.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).

* Fixed OutputStream.flush() so that 'position' is reset.

* Added flag to turn on and off line breaks.

* Fixed bug in input stream where last buffer being read, if not completely full, was not returned.

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* Fixed I/O streams which were totally messed up.

* Added helper methods to read/write files.

* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).

* Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams.

* Added the ability to GZip-compress objects before encoding them.

* Added flag to turn on and off line breaks.

* Fixed bug in input stream where last buffer being read, if not completely full, was not returned.

* Fixed when "improperly padded stream" error was thrown at the wrong time.

* Fixed I/O streams which were totally messed up.

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* Please visit http://iharder.net/base64 periodically to check for updates or to contribute improvements.

* @author Robert Harder

* @author rob@iharder.net
* @version 2.3.7
*/

Found in path(s):
* /opt/cola/permits/1150251466_1627682060.29/0/resteasy-jaxrs-3-6-3-sp1-sources-jar/org/jboss/resteasy/util/Base64.java

1.1916 jandex 2.1.3.Final

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1.1918 elasticsearch-rest-high-level-client

7.4.0

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*/

package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import java.io.IOException;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public class StartTrialResponse {

private static final ConstructingObjectParser<StartTrialResponse, Void> PARSER = new
ConstructingObjectParser<>
("start_trial_response",
true,
(Object[] arguments, Void aVoid) -> {
    final boolean acknowledged = (boolean) arguments[0];
    final boolean trialWasStarted = (boolean) arguments[1];
    final String licenseType = (String) arguments[2];
    final String errorMessage = (String) arguments[3];

    @SuppressWarnings("unchecked")
    final Tuple<String, Map<String, String[]>> acknowledgeDetails = (Tuple<String, Map<String, String[]>>)
arguments[4];
    final String acknowledgeHeader;
    final Map<String, String[]> acknowledgeMessages;

    if (acknowledgeDetails != null) {
        acknowledgeHeader = acknowledgeDetails.v1();
        acknowledgeMessages = acknowledgeDetails.v2();
    } else {
        acknowledgeHeader = null;
        acknowledgeMessages = null;
    }

    return new StartTrialResponse(acknowledged, trialWasStarted, licenseType, errorMessage,
    acknowledgeHeader,
    acknowledgeMessages);
};

static {
    PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
    PARSER.declareBoolean(constructorArg(), new ParseField("trial_was_started"));
    PARSER.declareString(optionalConstructorArg(), new ParseField("type"));
    PARSER.declareString(optionalConstructorArg(), new ParseField("error_message"));
    // todo consolidate this parsing with the parsing in PutLicenseResponse
    PARSER.declareObject(optionalConstructorArg(), (parser, aVoid) -> {
        final Map<String, String[]> acknowledgeMessages = new HashMap<>();
        String message = null;
        final Map<String, Object> parsedMap = parser.map();
        for (Map.Entry<String, Object> entry : parsedMap.entrySet()) {
            if (entry.getKey().equals("message")) {
                if (entry.getValue() instanceof String) {
                    message = (String) entry.getValue();
                } else {
                    throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
                }
            } else {
                throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
            }
        }
    });

if (entry.getValue() instanceof List) {
    final List<String> messageStrings = new ArrayList<>();
    @SuppressWarnings("unchecked")
    final List<Object> messageObjects = (List<Object>) entry.getValue();
    for (Object messageObject : messageObjects) {
        if (messageObject instanceof String) {
            messageStrings.add((String) messageObject);
        } else {
            throw new XContentParseException(parser.getTokenLocation(), "expected text in acknowledgement message");
        }
    }
    acknowledgeMessages.put(entry.getKey(), messageStrings.toArray(new String[messageStrings.size()]));
} else {
    throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement message type");
}
}

if (message == null) {
    throw new XContentParseException(parser.getTokenLocation(), "expected acknowledgement header");
}

return new Tuple<>(message, acknowledgeMessages);

public static StartTrialResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.apply(parser, null);
}

private final boolean acknowledged;
private final boolean trialWasStarted;
private final String licenseType;
private final String errorMessage;
private final String acknowledgeHeader;
private final Map<String, String[]> acknowledgeMessages;

public StartTrialResponse(boolean acknowledged,
    boolean trialWasStarted,
    String licenseType,
String errorMessage,
String acknowledgeHeader,
Map<String, String[]> acknowledgeMessages) {
    this.acknowledged = acknowledged;
    this.trialWasStarted = trialWasStarted;
    this.licenseType = licenseType;
    this.errorMessage = errorMessage;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

/**
 * Returns true if the request that corresponds to this response acknowledged license changes that would occur as a
 * result of starting
 * a trial license
 */
public boolean isAcknowledged() {
    return acknowledged;
}

/**
 * Returns true if a trial license was started as a result of the request corresponding to this response. Returns false
 * if the cluster
 * did not start a trial, or a trial had already been started before the corresponding request was made
 */
public boolean isTrialWasStarted() {
    return trialWasStarted;
}

/**
 * If a trial license was started as a result of the request corresponding to this response (see \ref isTrialWasStarted()) then
 * returns the type of license that was started on the cluster. Returns null otherwise
 */
public String getLicenseType() {
    return licenseType;
}

/**
 * If a trial license was not started as a result of the request corresponding to this response (see \ref isTrialWasStarted()) then
 * returns a brief message explaining why the trial could not be started. Returns false otherwise
 */
public String getErrorMessage() {
    return errorMessage;
}
/**
 * If the request corresponding to this response did not acknowledge licensing changes that would result from
 * starting a trial license
 * (see {@link #isAcknowledged()}), returns a message describing how the user must acknowledge licensing
 * changes as a result of
 * such a request. Returns null otherwise
 */
public String getAcknowledgeHeader() {
    return acknowledgeHeader;
}

/**
 * If the request corresponding to this response did not acknowledge licensing changes that would result from
 * starting a trial license
 * (see {@link #isAcknowledged()}, returns a map. The map's keys are names of commercial Elasticsearch
 * features, and their values are
 * messages about how those features will be affected by licensing changes as a result of starting a trial license
 */
public Map<String, String[]> getAcknowledgeMessages() {
    return acknowledgeMessages;
}

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package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.ObjectParser;
import org.elasticsearch.common.xcontent.XContentParser;

package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.ObjectParser;
import org.elasticsearch.common.xcontent.XContentParser;
import java.util.Objects;

import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;

/**
 * Response class for license get trial status API
 */
public class GetTrialStatusResponse {

private static final ParseField ELIGIBLE_TO_START_TRIAL = new ParseField("eligible_to_start_trial");

private static final ConstructingObjectParser<GetTrialStatusResponse, Void> PARSER = new ConstructingObjectParser<"get_trial_status_response", true, a -> new GetTrialStatusResponse((boolean) a[0]));

static {
    PARSER.declareField(constructorArg(), (parser, context) -> parser.booleanValue(), ELIGIBLE_TO_START_TRIAL, ObjectParser.ValueType.BOOLEAN);
}

private final boolean eligibleToStartTrial;
GetTrialStatusResponse(boolean eligibleToStartTrial) {
    this.eligibleToStartTrial = eligibleToStartTrial;
}

/**
 * Returns whether the license is eligible to start trial or not
 */
public boolean isEligibleToStartTrial() {
    return eligibleToStartTrial;
}

public static GetTrialStatusResponse fromXContent(XContentParser parser) {
    return PARSER.apply(parser, null);
}

@Override
public boolean equals(Object o) {
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }
    GetTrialStatusResponse that = (GetTrialStatusResponse) o;
    return eligibleToStartTrial == that.eligibleToStartTrial;
}

@Override
public boolean equals(Object o) {
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }
    GetTrialStatusResponse that = (GetTrialStatusResponse) o;
    return eligibleToStartTrial == that.eligibleToStartTrial;
}
public int hashCode() {
    return Objects.hash(eligibleToStartTrial);
}

package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.ObjectParser;
import org.elasticsearch.common.xcontent.XContentParser;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;

/**
 * Response class for license get basic status API
public class GetBasicStatusResponse {

    private static final ParseField ELIGIBLE_TO_START_BASIC = new ParseField("eligible_to_start_basic");

    private static final ConstructingObjectParser<GetBasicStatusResponse, Void> PARSER = new ConstructingObjectParser<"get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    static {
        PARSER.declareField(constructorArg(), (parser, context) -> parser.booleanValue(), ELIGIBLE_TO_START_BASIC, ObjectParser.ValueType.BOOLEAN);
    }

    private final boolean eligibleToStartBasic;

    GetBasicStatusResponse(boolean eligibleToStartBasic) {
        this.eligibleToStartBasic = eligibleToStartBasic;
    }

    /**
     * Returns whether the license is eligible to start basic or not
     */
    public boolean isEligibleToStartBasic() {
        return eligibleToStartBasic;
    }

    public static GetBasicStatusResponse fromXContent(XContentParser parser) {
        return PARSER.apply(parser, null);
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) {
            return true;
        }
        if (o == null || getClass() != o.getClass()) {
            return false;
        }
        GetBasicStatusResponse that = (GetBasicStatusResponse) o;
        return eligibleToStartBasic == that.eligibleToStartBasic;
    }

    @Override
    public int hashCode() {
        return Objects.hash(eligibleToStartBasic);
    }
}
package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.client.common.ProtocolUtils;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public final class PutLicenseResponse {

    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new ConstructingObjectParser<"put_license_response", true, (a, v) -> {
        boolean acknowledged = (Boolean) a[0];
        LicensesStatus licensesStatus = LicensesStatus.fromString((String) a[1]);
        @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String, Map<String, String[]>>)(Tuple<String, Map<String, String[]>>)a[2];
        return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements);
    });

    public PutLicenseResponse(boolean acknowledged, LicensesStatus licensesStatus, Tuple<String, Map<String, String[]>> acknowledgements) {
        this.acknowledged = acknowledged;
        this.licensesStatus = licensesStatus;
        this.acknowledgements = acknowledgements;
    }
}


Map<String, String[]> a[2];
if (acknowledgements == null) {
    return new PutLicenseResponse(acknowledged, licensesStatus);
} else {
    return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements.v1(),
    acknowledgements.v2());
}
}

static {
    PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
    PARSER.declareString(constructorArg(), new ParseField("license_status"));
    PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
        Map<String, String[]> acknowledgeMessages = new HashMap<>();
        String message = null;
        XContentParser.Token token;
        String currentFieldName = null;
        while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
            if (token == XContentParser.Token.FIELD_NAME) {
                currentFieldName = parser.currentName();
            } else {
                if (currentFieldName == null) {
                    throw new XContentParseException(parser.getTokenLocation(), "expected message header or
acknowledgement");
                }
                if ("message".equals(currentFieldName)) {
                    if (token != XContentParser.Token.VALUE_STRING) {
                        throw new XContentParseException(parser.getTokenLocation(), "unexpected message header
            type");
                    }
                    message = parser.text();
                } else {
                    if (token != XContentParser.Token.START_ARRAY) {
                        throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
type");
                    }
                    List<String> acknowledgeMessagesList = new ArrayList<>();
                    while ((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
                        if (token != XContentParser.Token.VALUE_STRING) {
                            throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
text");
                        }
                        acknowledgeMessagesList.add(parser.text());
                    }
                    acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
                }
            }
        }
    });
}
private boolean acknowledged;
private LicensesStatus status;
private Map<String, String[]> acknowledgeMessages;
private String acknowledgeHeader;

public PutLicenseResponse() {
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status) {
    this(acknowledged, status, null, Collections.<String, String[]>emptyMap());
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status, String acknowledgeHeader,
        Map<String, String[]> acknowledgeMessages) {
    this.acknowledged = acknowledged;
    this.status = status;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

public boolean isAcknowledged() {
    return acknowledged;
}

public LicensesStatus status() {
    return status;
}

public Map<String, String[]> acknowledgeMessages() {
    return acknowledgeMessages;
}

public String acknowledgeHeader() {
    return acknowledgeHeader;
}

public static PutLicenseResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
}

@Override
public boolean equals(Object o) {
if (this == o) return true;
if (o == null || getClass() != o.getClass()) return false;
if (!super.equals(o)) return false;
PutLicenseResponse that = (PutLicenseResponse) o;

return status == that.status &&
    ProtocolUtils.equals(acknowledgeMessages, that.acknowledgeMessages) &&
    Objects.equals(acknowledgeHeader, that.acknowledgeHeader);
}

@Override
public int hashCode() {
    return Objects.hash(super.hashCode(), status, ProtocolUtils.hashCode(acknowledgeMessages),
        acknowledgeHeader);
}

*/

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package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;
import static org.elasticsearch.common.xcontent.XContentParserUtils.ensureExpectedToken;

public class StartBasicResponse {

    private static final ConstructingObjectParser<StartBasicResponse, Void> PARSER = new
            ConstructingObjectParser<StartBasicResponse, Void>("start_basic_response", true, (a, v) -> {
                boolean basicWasStarted = (Boolean) a[0];
                String errorMessage = (String) a[1];
                if (basicWasStarted) {
                    return new StartBasicResponse(StartBasicResponse.Status.GENERATED_BASIC);
                }
                StartBasicResponse.Status status = StartBasicResponse.Status.fromErrorMessage(errorMessage);
                @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
                        Map<String, String[]>>) a[2];
                return new StartBasicResponse(status, acknowledgements.v2(), acknowledgements.v1());
            });

    static {
        PARSER.declareBoolean(constructorArg(), new ParseField("basic_was_started"));
        PARSER.declareString(optionalConstructorArg(), new ParseField("error_message"));
        PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
            Map<String, String[]> acknowledgeMessages = new HashMap<>();
            String message = null;
            XContentParser.Token token;
            String currentFieldName = null;
            while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
                if (token == XContentParser.Token.FIELD_NAME) {
                    currentFieldName = parser.currentName();
                } else {
                    if (currentFieldName == null) {
                        throw new XContentParseException(parser.getTokenLocation(), "expected message header or
                                acknowledgement");
                    }
                    if (new ParseField("message").getPreferredName().equals(currentFieldName)) {
                        ensureExpectedToken(XContentParser.Token.VALUE_STRING, token, parser::getTokenLocation);
                        message = parser.text();
                    } else {
                        if (token != XContentParser.Token.START_ARRAY) {
                            throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
type");
                        }
                    }
                }
            }
        });
    }
}
List<String> acknowledgeMessagesList = new ArrayList<>();
while ((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
    ensureExpectedToken(XContentParser.Token.VALUE_STRING, token, parser::getTokenLocation);
    acknowledgeMessagesList.add(parser.text());
}
acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
}

private StartBasicResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

public enum Status {
    GENERATED_BASIC(true, null),
    ALREADY_USING_BASIC(false, "Operation failed: Current license is basic."),
    NEED_AckNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.");

    private final boolean isBasicStarted;
    private final String errorMessage;
    Status(boolean isBasicStarted, String errorMessage) {
        this.isBasicStarted = isBasicStarted;
        this.errorMessage = errorMessage;
    }

    static StartBasicResponse.Status fromErrorMessage(final String errorMessage) {
        final StartBasicResponse.Status[] values = StartBasicResponse.Status.values();
        for (StartBasicResponse.Status status : values) {
            if (Objects.equals(status.errorMessage, errorMessage)) {
                return status;
            }
        }
        throw new IllegalArgumentException("No status for error message ['" + errorMessage + "]");
    }
}

private StartBasicResponse.Status status;

private StartBasicResponse(StartBasicResponse.Status status) {
    this(status, Collections.emptyMap(), null);
}
private StartBasicResponse(StartBasicResponse.Status status,
    Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

public boolean isAcknowledged() {
    return status != StartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;
}

public boolean isBasicStarted() {
    return status.isBasicStarted;
}

public String getErrorMessage() {
    return status.errorMessage;
}

public String getAcknowledgeMessage() {
    return acknowledgeMessage;
}

public Map<String, String[]> getAcknowledgeMessages() {
    return acknowledgeMessages;
}

public static StartBasicResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
}

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*/
package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class StartBasicRequest extends TimedRequest {
    private final boolean acknowledge;
    
    public StartBasicRequest() {
        this(false);
    }
    
    public StartBasicRequest(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }
    
    public boolean isAcknowledge() {
        return acknowledge;
    }
}

package org.elasticsearch.client.license;

public class GetLicenseResponse {
    
    private String license;
}
GetLicenseResponse() {
}

public GetLicenseResponse(String license) {
    this.license = license;
}

public String getLicenseDefinition() {
    return license;
}

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*/
package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class DeleteLicenseRequest extends TimedRequest {

}
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package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class PutLicenseRequest extends TimedRequest {
    private String licenseDefinition;
    private boolean acknowledge = false;

    public PutLicenseRequest() {
    }

    public void setLicenseDefinition(String licenseDefinition) {
        this.licenseDefinition = licenseDefinition;
    }

    public String getLicenseDefinition() {
        return licenseDefinition;
    }

    public void setAcknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }

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package org.elasticsearch.client.license;

import org.elasticsearch.client.Validatable;

public class GetLicenseRequest implements Validatable {

    protected boolean local = false;

    public GetLicenseRequest() {
    }

    public boolean isLocal() {
        return local;
    }

    public void setLocal(boolean local) {
        this.local = local;
    }
}

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package org.elasticsearch.client.license;

import java.util.Locale;

import java.util.Locale;
public enum LicensesStatus {
    VALID((byte) 0),
    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }

    public int id() {
        return id;
    }

    public static LicensesStatus fromId(int id) {
        if (id == 0) {
            return VALID;
        } else if (id == 1) {
            return INVALID;
        } else if (id == 2) {
            return EXPIRED;
        } else {
            throw new IllegalStateException("no valid LicensesStatus for id=" + id);
        }
    }

    @Override
    public String toString() {
        return this.name().toLowerCase(Locale.ROOT);
    }

    public static LicensesStatus fromString(String value) {
        switch (value) {
            case "valid":
                return VALID;
            case "invalid":
                return INVALID;
            case "expired":
                return EXPIRED;
            default:
                throw new IllegalArgumentException("unknown licenses status [" + value + "]");
        }
    }
}

@override
public String toString() {
    return this.name().toLowerCase(Locale.ROOT);
}

public static LicensesStatus fromString(String value) {
    switch (value) {
        case "valid":
            return VALID;
        case "invalid":
            return INVALID;
        case "expired":
            return EXPIRED;
        default:
            throw new IllegalArgumentException("unknown licenses status [" + value + "]");
    }
}

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/**
 * Request and Response objects for the default distribution's License
 * APIs.
 */
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*/
package org.elasticsearch.client.license;

/**
 * Status of an X-Pack license.
 */
public enum LicenseStatus {

    ACTIVE("active"),


INVALID("invalid"),
EXPIRED("expired");

private final String label;

LicenseStatus(String label) {
    this.label = label;
}

public String label() {
    return label;
}

public static LicenseStatus fromString(String value) {
    switch (value) {
    case "active":
        return ACTIVE;
    case "invalid":
        return INVALID;
    case "expired":
        return EXPIRED;
    default:
        throw new IllegalArgumentException("unknown license status [" + value + "]");
    }
}

package org.elasticsearch.client.license;

import org.elasticsearch.client.Validatable;

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 */

package org.elasticsearch.client.license;

import org.elasticsearch.client.Validatable;
import org.elasticsearch.common.Nullable;

public class StartTrialRequest implements Validatable {

    private final boolean acknowledge;
    private final String licenseType;

    public StartTrialRequest() {
        this(false);
    }

    public StartTrialRequest(boolean acknowledge) {
        this(acknowledge, null);
    }

    public StartTrialRequest(boolean acknowledge, @Nullable String licenseType) {
        this.acknowledge = acknowledge;
        this.licenseType = licenseType;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }

    public String getLicenseType() {
        return licenseType;
    }
}

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* /opt/cola/permits/1150250382_1627682079.83/0/wildfly-elytron-mechanism-scram-1-10-3-final-sources-jar/org/wildfly/security/mechanism/scram/ScramFinalClientMessage.java

1.1924 spring-boot-starter-web

2.2.2.RELEASE

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Version 2, June 1991

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1.1927 diffutils 3.3 5.el7

1.1927.1 Available under license:
/* diff - compare files line by line


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/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS
  proper_name ("Paul Eggert"),
  proper_name ("Mike Haertel"),
  proper_name ("David Hayes"),
  proper_name ("Richard Stallman"),
  proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
  char *regexps;/* chars representing disjunction of the regexps */
  size_t len;/* chars used in 'regexps' */
}
size_t size; /* size malloc'ed for 'regexps'; 0 if not malloc'ed */
bool multiple_regexps; /* Does 'regexps' represent a disjunction? */
struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary). On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true }
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s). Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =

/* Values for long options that do not have single-letter equivalents. */
enum
{ 
BINARY_OPTION = CHAR_MAX + 1, 
FROM_FILE_OPTION, 
HELP_OPTION, 
HORIZON_LINES_OPTION, 
IGNORE_FILE_NAME_CASE_OPTION, 
INHIBIT_HUNK_MERGE_OPTION, 
LEFT_COLUMN_OPTION, 
LINE_FORMAT_OPTION, 
NO_DEREFERENCE_OPTION, 
NO_IGNORE_FILE_NAME_CASE_OPTION, 
NORMAL_OPTION, 
SDIFF_MERGE_ASSIST_OPTION, 
STRIP_TRAILING_CR_OPTION, 
SUPPRESS_BLANK_EMPTY_OPTION, 
SUPPRESS_COMMON_LINES_OPTION, 
TABSIZE_OPTION, 
TO_FILE_OPTION, 

/* These options must be in sequence. */ 
UNCHANGED_LINE_FORMAT_OPTION, 
OLD_LINE_FORMAT_OPTION, 
NEW_LINE_FORMAT_OPTION, 

/* These options must be in sequence. */ 
UNCHANGED_GROUP_FORMAT_OPTION, 
OLD_GROUP_FORMAT_OPTION, 
NEW_GROUP_FORMAT_OPTION, 
CHANGED_GROUP_FORMAT_OPTION 
};

static char const group_format_option[][sizeof "--unchanged-group-format"] = 
{ 
"--unchanged-group-format", 
"--old-group-format", 
"--new-group-format", 
"--changed-group-format" 
};

static char const line_format_option[][sizeof "--unchanged-line-format"] = 
{ 
"--unchanged-line-format", 
"--old-line-format", 
"--new-line-format" 
};

static struct option const longopts[] = 
{ 

static char *
option_list (char **optionvec, int count)
{
  int i;
  size_t size = 1;
  char *result;
  char *p;

  for (i = 0; i < count; i++)
    size += 1 + shell_quote_length (optionvec[i]);

  p = result = xmalloc (size);

  for (i = 0; i < count; i++)
    {
    "p++ = ";
    "p = shell_quote_copy (p, optionvec[i]);
    }

  "p = \0; return result;

  /* Return an option value suitable for add_exclude. */

  static int
  exclude_options (void)
int main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    lin ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend; 

    /* Do our initializations. */
    exit_failure = EXIT_TROUBLE;
    initialize_main (&argc, &argv);
    set_program_name (argv[0]);
    setlocale (LC_ALL, "") ;
    bindtextdomain (PACKAGE, LOCALEDIR);
    textdomain (PACKAGE);
    c_stack_action (0);
    function_regexp_list.buf = &function_regexp;
    ignore_regexp_list.buf = &ignore_regexp;
    re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
    excluded = new_exclude ()
;
    /* Decode the options. */

    while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
    {
        switch (c)
        {
        case 0:
            break;

        case '0':
        case '1':
        case '2':
        case '3':
        case '4':
        case '5':
case '6':
    case '7':
    case '8':
    case '9':
        if (! ISDIGIT (prev))
            ocontext = c - '0';
        else if ( LIN_MAX / 10 < ocontext
               || ((ocontext = 10 * ocontext + c - '0') < 0))
            ocontext = LIN_MAX;
        break;

    case 'a':
        text = true;
        break;

    case 'b':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space = IGNORE_SPACE_CHANGE;
        break;

    case 'Z':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space |= IGNORE_TRAILING_SPACE;
        break;

    case 'B':
        ignore_blank_lines = true;
        break;

    case 'C':
    case 'U':
        {
            if (optarg)
                numval = strtoumax (optarg, &numend, 10);
            if (*numend)
                try_help ("invalid context length "", optarg);
            if (LIN_MAX < numval)
                numval = LIN_MAX;
            else
                numval = 3;

            specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
            if (context < numval)
                context = numval;
            explicit_context = true;
        }
break;

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
            "%%=%c#ifndef %s
%%%<#endif /* ! %s */
%c#ifdef %s
%%%#endif /* %s */
%c#ifndef %s
%%%<#else /* %s */
%%%#endif /* %s */
";
        char *b = xmalloc(sizeof C_ifdef_group_formats
            + 7 * strlen(optarg) - 14 /* 7*"%s" */
            - 8 /* 5*"%s" + 3*"%c" */);
        sprintf(b, C_ifdef_group_formats,
            optarg, optarg, optarg, optarg);
        for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
            specify_value(&group_format[i], b, "-D");
        b += strlen(b) + 1;
    }
    break;

case 'e':
    specify_style (OUTPUT_ED);
    break;

case 'E':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TAB_EXPANSION;
    break;

case 'f':
    specify_style (OUTPUT_FORWARD_ED);
    break;

case 'F':
    break;
add_regexp (&function_regexp_list, optarg);
break;

case 'h':
    /* Split the files into chunks for faster processing.
       Usually does not change the result.

       This currently has no effect. */
    break;

case 'H':
    speed_large_files = true;
    break;

case 'i':
    ignore_case = true;
    break;

case 'I':
    add_regexp (&ignore_regexp_list, optarg);
    break;

case 'l':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;

#ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
#endif
    break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[[:alpha:]$_]";)
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
        AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
ignore_white_space = IGNORE_ALL_SPACE;
break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
        exclude_options (), '\n'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ('invalid width "%s", optarg);
    if (width != numval)
    {
        if (width)
            fatal ('conflicting width options');
        width = numval;
    }
    break;

case BINARY_OPTION:
#if O_BINARY
    binary = true;
    if (! isatty (STDOUT_FILENO))
        set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif
    break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, '--from-file');
    break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
if (*numend)
    try_help ("invalid horizon length "s", optarg);
horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
     * compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO.Ignore_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;
case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtoumax(optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize " "%%s", optarg);
    if (tabsize != numval)
        { 
            if (tabsize)
                fatal ("conflicting tabsize options");
            tabsize = numval;
        } 
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);
    }
    prev = c;
    }

if (output_style == OUTPUT_UNSPECIFIED)
    {
    if (show_c_function)
        {
specify_style (OUTPUT_CONTEXT);
if (ocontext < 0)
    context = 3;
} else
specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \
    || defined HAVE_STRUCT_STAT_ST_SPARE1)
    time_format = "%Y-%m-%d %H:%M:%S.%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
} else
{
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && ! explicit_context)))
context = ocontext;

if (! tabsize)
tabsize = 8;
if (! width)
width = 130;

{
    /* Maximize first the half line width, and then the gutter width, 
       according to the following constraints:

    1. Two half lines plus a gutter must fit in a line.
    2. If the half line width is nonzero:
       a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
       b. If tabs are not expanded to spaces,
          a half line plus a gutter is an integral number of tabs,
          so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
  horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
  {
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
      if (!line_format[i])
        line_format[i] = "\n";
    if (!group_format[OLD])
      group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
      group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
      group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
      group_format[CHANGED] = concat (group_format[OLD],
                                      group_format[NEW], "");
  }

no_diff_means_no_output =
  (output_style == OUTPUT_IFDEF ?
    ("group_format[UNCHANGED]" || (STREQ (group_format[UNCHANGED], "%=")
    && !"line_format[UNCHANGED]"))
  : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
  (brief & binary
   & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
        | (ignore_regexp_list.regexps || ignore_white_space)));
fatal ("--from-file and --to-file both specified");
else
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, from_file, argv[optind]);
    if (exit_status < status)
        exit_status = status;
}
else
{
    if (to_file)
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, argv[optind], to_file);
    if (exit_status < status)
        exit_status = status;
}
else
{
    if (argc - optind != 2)
    {
        if (argc - optind < 2)
            try_help ("missing operand after '%s'", argv[argc - 1]);
        else
            try_help ("extra operand '%s'", argv[optind + 2]);
    }
    exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}
}

/* Print any messages that were saved up for last. */
print_message_queue ();
check_stdout ();
exit (exit_status);
return exit_status;

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);
if (m != 0)
    error (0, 0, "%s: %s", pattern, m);
else
{
    char *regexps = reglist->regexps;
    size_t len = reglist->len;
    bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
    size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
    size_t size = reglist->size;

    if (size <= newlen)
    {
        if (!size)
            size = 1;

        do size *= 2;
        while (size <= newlen);

        reglist->size = size;
        reglist->regexps = regexps = xrealloc (regexps, size);
    }
    if (multiple_regexps)
    {
        regexps[len++] = '\';
        regexps[len++] = '|';
    }
    memcpy (regexps + len, pattern, patlen + 1);
}

/* Ensure that REGLIST represents the disjunction of its regexps.  
   This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
    if (reglist->regexps)
    {
        /* At least one regexp was specified.  Allocate a fastmap for it. */
        reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
        if (reglist->multiple_regexps)
        {
            /* Compile the disjunction of the regexps.  
               (If just one regexp was specified, it is already compiled.) */
            char const *m = re_compile_pattern (reglist->regexps, reglist->len, 
                                              reglist->buf);
            if (m)
                error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
        }
    }
}
}
}
}
static void
try_help (char const *reason_msgid, char const *operand)
{
if (reason_msgid)
error (0, 0, _(reason_msgid), operand);
error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
program_name);
abort ();
}
static void
check_stdout (void)
{
if (ferror (stdout))
fatal ("write failed");
else if (fclose (stdout) != 0)
pfatal_with_name (_("standard output"));
}
static char const * const option_help_msgid[] = {
N_(" --normal
output a normal diff (the default)"),
N_("-q, --brief
report only when files differ"),
N_("-s, --report-identical-files report when two files are the same"),
N_("-c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context"),
N_("-u, -U NUM, --unified[=NUM] output NUM (default 3) lines of unified context"),
N_("-e, --ed
output an ed script"),
N_("-n, --rcs
output an RCS format diff"),
N_("-y, --side-by-side
output in two columns"),
N_("-W, --width=NUM
output at most NUM (default 130) print columns"),
N_(" --left-column
output only the left column of common lines"),
N_(" --suppress-common-lines do not output common lines"),
"",
N_("-p, --show-c-function
show which C function each change is in"),
N_("-F, --show-function-line=RE show the most recent line matching RE"),
N_(" --label LABEL
use LABEL instead of file name\n"
"
(can be repeated)"),
"",
N_("-t, --expand-tabs
expand tabs to spaces in output"),
N_("-T, --initial-tab
make tabs line up by prepending a tab"),
N_(" --tabsize=NUM
tab stops every NUM (default 8) print columns"),
N_(" --suppress-blank-empty suppress space or tab before empty output lines"),
N_("-l, --paginate
pass output through 'pr' to paginate it"),
"",
N_("-r, --recursive
recursively compare any subdirectories found"),

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N_("--no-dereference don't follow symbolic links"),
N_("-N, --new-file treat absent files as empty"),
N_("--unidirectional-new-file treat absent first files as empty"),
N_("--ignore-file-name-case ignore case when comparing file names"),
N_("--no-ignore-file-name-case consider case when comparing file names"),
N_("-x, --exclude=PAT exclude files that match PAT"),
N_("-X, --exclude-from=FILE exclude files that match any pattern in FILE"),
N_("-S, --starting-file=FILE start with FILE when comparing directories"),
N_("--from-file=FILE1 compare FILE1 to all operands; \
" FILE1 can be a directory"),
N_("--to-file=FILE2 compare all operands to FILE2; \
" FILE2 can be a directory"),

N_("-i, --ignore-case ignore case differences in file contents"),
N_("-E, --ignore-tab-expansion ignore changes due to tab expansion"),
N_("-Z, --ignore-trailing-space ignore white space at line end"),
N_("-b, --ignore-space-change ignore changes in the amount of white space"),
N_("-w, --ignore-all-space ignore all white space"),
N_("-B, --ignore-blank-lines ignore changes where lines are all blank"),
N_("-I, --ignore-matching-lines=RE ignore changes where all lines match RE"),

N_("-a, --text treat all files as text"),
N_("--strip-trailing-cr strip trailing carriage return on input"),
#if O_BINARY
N_("--binary read and write data in binary mode"),
#endif

N_("-D, --ifdef=NAME output merged file with '#ifdef NAME' diffs"),
N_("--GTYPE-group-format=GFM T format GTYPE input groups with GFM T"),
N_("--line-format=LFMT format all input lines with LFMT"),
N_("--LTYPE-line-format=LFMT format LTYPE input lines with LFMT"),
N_("These format options provide fine-grained control over the output\\n" of diff, generalizing -D/--ifdef."),
N_(" LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'."),
N_(" GFM T (only) may contain:\n%< lines from FILE1\\n%> lines from FILE2\\n% = lines common to FILE1 and FILE2\\n%-[-][WIDTH][[:PREC]][doX]LETTER printf-style spec for LETTER\\LETTERs are as follows for new group, lower case for old group\\nF first line number\\nL last line number\\nN number of lines = L-F+1\\nE F-1\\nM L+1\\n%(A=B?T:E) if A equals B then T else E"),
N_(" LFMT (only) may contain:\n%L contents of line\n"
static void
usage (void)
{
    char const * const *p;

    printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
    printf (_("Compare FILES line by line.\n"));
    fputs (_("\n Mandatory arguments to long options are mandatory for short options too.\n "), stdout);

    for (p = option_help_msgid;  *p;  p++)
    {
        if (!**p)
            putchar ('\n');
        else
        {
            char const *msg = _(*p);
            char const *nl;
            while ((nl = strchr (msg, '\n')))
            {
                int msglen = nl + 1 - msg;
                printf (_("\n ", msglen, msg);
                msg = nl + 1;
            }
        }
    }
}
printf (" %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
}
}
emit_bug_reporting_address ();
}
/* Set VAR to VALUE, reporting an OPTION error if this is a
conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
if (*var && ! STREQ (*var, value))
{
error (0, 0, _("conflicting %s option value '%s'"), option, value);
try_help (NULL, NULL);
}
*var = value;
}
/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
if (output_style != style)
{
if (output_style != OUTPUT_UNSPECIFIED)
try_help ("conflicting output style options", NULL);
output_style = style;
}
}
/* Set the last-modified time of *ST to be the current time. */
static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
gettime (&STAT_TIMESPEC (st, st_mtim));
#else
struct timespec t;
gettime (&t);
st->st_mtime = t.tv_sec;
# if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
# elif defined HAVE_STRUCT_STAT_ST_SPARE1
st->st_spare1 = t.tv_nsec / 1000;
# endif

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/* Compare two files (or dirs) with parent comparison PARENT and names NAME0 and NAME1.
   (If PARENT is null, then the first name is just NAME0, etc.)
   This is self-contained; it opens the files and closes them.

   Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
    struct comparison cmp;
    #define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
    int status = EXIT_SUCCESS;
    bool same_files;
    char *free0;
    char *free1;

    /* If this is directory comparison, perhaps we have a file that exists only in one of the directories.
       If so, just print a message to that effect. */

    if (! ((name0 && name1)
         || (unidirectional_new_file && name1)
         || new_file))
    {
        char const *name = name0 ? name0 : name1;
        char const *dir = parent->file[!name0].name;

        /* See POSIX 1003.1-2001 for this format. */
        message ("Only in %s: %s\n", dir, name);

        /* Return EXIT_FAILURE so that diff_dirs will return EXIT_FAILURE ("some files differ"). */
        return EXIT_FAILURE;
    }

    memset (cmp.file, 0, sizeof cmp.file);
    cmp.parent = parent;

    /* cmp.file[f].desc markers */
    #define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */

#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
{
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0 = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1 = file_name_concat (parent->file[1].name, name1, NULL);
}

/* Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
                set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
                cmp.file[f].desc = ERRNO_ENCODE (errno);
        }
else
{
if (S_ISREG (cmp.file[f].stat.st_mode))
{
off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
if (pos < 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
else
cmp.file[f].stat.st_size =
MAX (0, cmp.file[f].stat.st_size - pos);
}

/* POSIX 1003.1-2001 requires current time for
stdin. */
set_mtime_to_now (&cmp.file[f].stat);
}
}
else if ((no_dereference_symlinks
? lstat (cmp.file[f].name, &cmp.file[f].stat)
: stat (cmp.file[f].name, &cmp.file[f].stat))
!= 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
}
}

/* Mark files as nonexistent as needed for -N and -P, if they are
inaccessible empty regular files (the kind of files that 'patch'
creates to indicate nonexistent backups), or if they are
top-level files that do not exist but their counterparts do
exist. */
for (f = 0; f < 2; f++)
if ((new_file || (f == 0 && unidirectional_new_file))
&& (cmp.file[f].desc == UNOPENED
 ? (S_ISREG (cmp.file[f].stat.st_mode)
 & & ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
 & & cmp.file[f].stat.st_size == 0)
 : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
 || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
 & & ! parent
 & & (cmp.file[1 - f].desc == UNOPENED
 || cmp.file[1 - f].desc == STDIN_FILENO)))
cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
if (cmp.file[f].desc == NONEXISTENT)
{
memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
for (f = 0; f < 2; f++)
{
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
    {
        errno = e;
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
    }
}

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
{
    /* If one is a directory, and it was specified in the command line,
       use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
    = find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "/-"))
        fatal ("cannot compare '-' to a directory");

    if (!(no_dereference_symlinks
        ? lstat (filename, &cmp.file[dir_arg].stat)
        : stat (filename, &cmp.file[dir_arg].stat))
        != 0)
    {
        perror_with_name (filename);
        status = EXIT_TROUBLE;
    }
}

if (status != EXIT_SUCCESS)
{
    /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
        && cmp.file[1].desc == NONEXISTENT)
{
    /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
= (cmp.file[0].desc != NONEXISTENT
  && cmp.file[1].desc != NONEXISTENT
  && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
  && same_file_attributes (&cmp.file[0].stat,
  &cmp.file[1].stat))
  && no_diff_means_no_output)
{
  /* The two named files are actually the same physical file.
  We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{
  if (output_style == OUTPUT_IFDEF)
    fatal ("-D option not supported with directories");

  /* If both are directories, compare the files in them. */

  if (parent && !recursive)
  {
    /* But don't compare dir contents one level down
       unless -r was specified.
       See POSIX 1003.1-2001 for this format. */
    message ("Common subdirectories: %s and %s\n",
            cmp.file[0].name, cmp.file[1].name);
  }
  else
    status = diff_dirs (&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))
  || (parent
      && !((S_ISREG (cmp.file[0].stat.st_mode)
        || S_ISLNK (cmp.file[0].stat.st_mode))
      && (S_ISREG (cmp.file[1].stat.st_mode)
        || S_ISLNK (cmp.file[1].stat.st_mode)))))
{
  if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
  {
    /* We have a subdirectory that exists only in one directory. */

    if ((DIR_P (0) | DIR_P (1))
        && recursive
        && (new_file
            || (unidirectional_new_file
                && cmp.file[0].desc == NONEXISTENT)))
      status = diff_dirs (&cmp, compare_files);
    else
      {
        char const *dir;
/* PARENT must be non-NULL here. */
assert (parent);
dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

/* See POSIX 1003.1-2001 for this format. */
message5 ("Only in %s: %s\n", dir, name0);

status = EXIT_FAILURE;
}
}
else
/* We have two files that are not to be compared. */

/* See POSIX 1003.1-2001 for this format. */
message5 ("File %s is a %s while file %s is a %s\n", 
file_label[0] ? file_label[0] : cmp.file[0].name, 
file_type (&cmp.file[0].stat), 
file_type (&cmp.file[1].stat));

/* This is a difference. */
status = EXIT_FAILURE;
}

else if (S_ISLNK (cmp.file[0].stat.st_mode) 
|| S_ISLNK (cmp.file[1].stat.st_mode))
{
/* We get here only if we use lstat(), not stat(). */
assert (no_dereference_symlinks);

if (S_ISLNK (cmp.file[0].stat.st_mode) 
&& S_ISLNK (cmp.file[1].stat.st_mode))
{
/* Compare the values of the symbolic links. */
char *link_value[2] = { NULL, NULL };

for (f = 0; f < 2; f++)
{
    link_value[f] = xreadlink (cmp.file[f].name);
    if (link_value[f] == NULL)
    {
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
        break;
    }
}
if (status == EXIT_SUCCESS)
{
    if ( ! STREQ (link_value[0], link_value[1]))
    {
        message ("Symbolic links %s and %s differ\n", cmp.file[0].name, cmp.file[1].name);
        /* This is a difference. */
        status = EXIT_FAILURE;
    }
}
}
for (f = 0; f < 2; f++)
    free (link_value[f]);
else
{
    /* We have two files that are not to be compared, because
    one of them is a symbolic link and the other one is not. */
    message5 ("File %s is a %s while file %s is a %s\n", file_label[0] ? file_label[0] : cmp.file[0].name, file_type (&cmp.file[0].stat), file_label[1] ? file_label[1] : cmp.file[1].name, file_type (&cmp.file[1].stat));
    /* This is a difference. */
    status = EXIT_FAILURE;
}
else if (files_can_be_treated_as_binary
    && S_ISREG (cmp.file[0].stat.st_mode)
    && S_ISREG (cmp.file[1].stat.st_mode)
    && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
    {
        message ("Files %s and %s differ\n", file_label[0] ? file_label[0] : cmp.file[0].name, file_label[1] ? file_label[1] : cmp.file[1].name);
        status = EXIT_FAILURE;
    }
else
{
    /* Both exist and neither is a directory. */
    /* Open the files and record their descriptors. */
    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
        if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
{  perror_with_name (cmp.file[0].name);  status = EXIT_TROUBLE;  }
  if (cmp.file[1].desc == UNOPENED)
  {
    if (same_files)      
      cmp.file[1].desc = cmp.file[0].desc;
    else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
      {
        perror_with_name (cmp.file[1].name);  
        status = EXIT_TROUBLE;
      }
  }
/* Compare the files, if no error was found. */
  if (status == EXIT_SUCCESS)
    status = diff_2_files (&cmp);
/* Close the file descriptors. */
  if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
    {
      perror_with_name (cmp.file[0].name);  
      status = EXIT_TROUBLE;
    }
  if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
      && close (cmp.file[1].desc) != 0)
    {
      perror_with_name (cmp.file[1].name);  
      status = EXIT_TROUBLE;
    }
/* Now the comparison has been done, if no error prevented it, 
   and STATUS is the value this function will return. */
  if (status == EXIT_SUCCESS)
    {
      if (report_identical_files && !DIR_P (0))
        message ("Files %s and %s are identical
", 
          file_label[0] ? file_label[0] : cmp.file[0].name, 
      else
        {
          /* Flush stdout so that the user sees differences immediately. 
   */
This can hurt performance, unfortunately. */
if (fflush (stdout) != 0)
    pfatal_with_name ("standard output");
}

free (free0);
free (free1);

return status;
}

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1.1931 jdtcore 3.1.0

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package org.eclipse.jdt.core;

import java.io.IOException;
import java.util.Enumeration;
import java.util.zip.ZipEntry;
import java.util.zip.ZipFile;
import org.apache.tools.ant.BuildException;
import org.apache.tools.ant.Task;
import org.eclipse.jdt.core.util.IClassFileReader;
import org.eclipse.jdt.core.util.ICodeAttribute;
import org.eclipse.jdt.core.util.IMethodInfo;
import org.eclipse.jdt.internal.antadapter.AntAdapterMessages;

/**
 * <p>An Ant task to find out if a class file or a jar contains debug attributes. If this is the case,
 * the property contains the value "has debug" after the call.</p>
 * <p>
 * &lt;eclipse.checkDebugAttributes property="hasDebug" file="${basedir}/bin/p/A.class"/&gt;</p>
 * <p>
 * For more information on Ant check out the website at http://jakarta.apache.org/ant/ .
 * </p>
 * <p>
 * This is not intended to be subclassed by users.
 * @since 2.0
 */
public final class CheckDebugAttributes extends Task {

private String file;
private String property;

public void execute() throws BuildException {
    if (this.file == null) {
        throw new BuildException(AntAdapterMessages.getString("checkDebugAttributes.file.argument.cannot.be.null"));
    }
    if (this.property == null) {
        throw new BuildException(AntAdapterMessages.getString("checkDebugAttributes.property.argument.cannot.be.null"));
    }
    try {
        boolean hasDebugAttributes = false;
        if (org.eclipse.jdt.internal.compiler.util.Util.isArchiveFileName(this.file)) {
            ZipFile jarFile = new ZipFile(this.file);
            for (Enumeration entries = jarFile.entries(); !hasDebugAttributes && entries.hasMoreElements(); ) {
                ZipEntry entry = (ZipEntry) entries.nextElement();
                if (org.eclipse.jdt.internal.compiler.util.Util.isClassFileName(entry.getName())) {
                    IClassFileReader classFileReader = ToolFactory.createDefaultClassFileReader(this.file, entry.getName(), IClassFileReader.ALL);
                    hasDebugAttributes = checkClassFile(classFileReader);
                }
            }
        } else if (org.eclipse.jdt.internal.compiler.util.Util.isClassFileName(this.file)) {
            IClassFileReader classFileReader = ToolFactory.createDefaultClassFileReader(this.file, IClassFileReader.ALL);
            hasDebugAttributes = checkClassFile(classFileReader);
        } else {
            throw new BuildException(AntAdapterMessages.getString("checkDebugAttributes.file.argument.must.be.a.classfile.or.a.jarfile"));
        }
        if (hasDebugAttributes) {
            getProject().setUserProperty(this.property, "has debug");
        }
    } catch (IOException e) {
        throw new BuildException(AntAdapterMessages.getString("checkDebugAttributes.ioexception.occured") + this.file);
    }
}

private boolean checkClassFile(IClassFileReader classFileReader) {
    IMethodInfo[] methodInfos = classFileReader.getMethodInfos();
    for (int i = 0, max = methodInfos.length; i < max; i++) {
        ICodeAttribute codeAttribute = methodInfos[i].getCodeAttribute();
        if (codeAttribute != null && codeAttribute.getLineNumberAttribute() != null) {
            return true;
        }
    }
    return false;
}
return false;
}

public void setFile(String value) {
    this.file = value;
}

public void setProperty(String value) {
    this.property = value;
}

1.1932 netty-transport 4.1.22.Final
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* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
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* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
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* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
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* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
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jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
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jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/DefaultChannelId.java
* /opt/ cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java

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  jar/io/netty/channel/oio/OioByteStreamChannel.java

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* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/AbstractServerChannel.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/local/LocalChannel.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-jar/io/netty/channel/FailedChannelFuture.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/CompleteChannelFuture.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/ChannelHandlerContext.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/nio/NioTask.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/ChannelException.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
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* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/local/package-info.java
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jar/io/netty/channel/socket/package-info.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/EventLoop.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/FileRegion.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
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* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/embedded/package-info.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/group/ChannelGroupFutureListener.java
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jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
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jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1111556647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/SingleThreadEventLoop.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
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jar/io/netty/channel/ChannelMetadata.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
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* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/ChannelConfig.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/AbstractChannel.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/oio/AbstractOioByteChannel.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/ChannelPipeline.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/ChannelPromiseNotifier.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/cola/permits/111156647_1606933708.28/0/netty-transport-4-1-22-final-sources-
jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
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Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its `ChannelPipeline`.

- **Sub-types**
  - `ChannelInboundHandler` to handle inbound I/O events,
  - `ChannelOutboundHandler` to handle outbound I/O operations.

- Alternatively, the following adapter classes are provided for your convenience:
  - `ChannelInboundHandlerAdapter` to handle inbound I/O events,
  - `ChannelOutboundHandlerAdapter` to handle outbound I/O operations,
  - `ChannelDuplexHandler` to handle both inbound and outbound events.

For more information, please refer to the documentation of each subtype.

- The context object
  - A `ChannelHandlerContext` is provided with a `ChannelHandlerContext` object. A `ChannelHandlerContext` is supposed to interact with the `ChannelPipeline` it belongs to via a context object. Using the context object, the `ChannelHandlerContext` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `AttributeKey` objects) which is specific to the handler.
State management

A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}
```

```java
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        Channel ch = e.getChannel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else (message instanceof GetDataMessage) {
            if (loggedIn) {
                ch.write(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where an unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See [ChannelInitializer#initChannel(Channel)]
public class DataServerInitializer extends ChannelInitializer<Channel> {

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Using `AttributeKey`s
Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use \{@link\ AttributeKey\}s which is provided by
\{@link\ ChannelHandlerContext\}:

```java
public interface Message {
    // your methods here
}
```

\{@code @Sharable\}

```java
public class DataServerHandler extends \{@link SimpleChannelInboundHandler\}\&\{Message\} {
    private final \{@link AttributeKey\}\&\{Boolean\} auth = 
        \{@link AttributeKey#valueOf\}(String) AttributeKey.valueOf("auth");

    \{@code @Override\}
    public void channelRead(\{@link ChannelHandlerContext\} ctx, Message message) {
        \{@link Attribute\}\&\{Boolean\} attr = ctx.attr(auth);
        \{@link Channel\} ch = ctx.channel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            \langle\b\rangle.attr.set(true)\langle/\b\rangle;
        } else (message instanceof GetDataMessage) {
            if (\langle\b\rangle Boolean.TRUE.equals(attr.get())\langle/\b\rangle) {
                ch.write(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```

Now that the state of the handler is attached to the \{@link\ ChannelHandlerContext\}, you can add the
same handler instance to different pipelines:

```java
public class DataServerInitializer extends \{@link ChannelInitializer\}\&\{@link Channel\} {
    private static final DataServerHandler SHARED = new DataServerHandler();

    \{@code @Override\}
    public void initChannel(\{@link Channel\} channel) {
        channel.pipeline().addLast("handler", \langle\b\rangle SHARED\langle/\b\rangle);
    }
}
```

The \{@code @Sharable\} annotation
* In the example above which used an `AttributeKey`, you might have noticed the `Sharable` annotation.

* If a `ChannelHandler` is annotated with the `Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

* This annotation is provided for documentation purpose, just like the JCIP annotations.

* Additional resources worth reading

Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

```
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```

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

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

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

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

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* java.sun.security.ssl

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

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

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

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
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</xsl:stylesheet>
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1.1941 junit 4.13.2
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1.1943 jgroups 3.6.13.Final

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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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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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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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) 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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1.1950 hdrhistogram 2.1.12

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Manifest-Version: 1.0
Bnd-LastModified: 1575980548657
Build-Jdk: 1.8.0_232
Built-By: gil
Bundle-Description: HdrHistogram supports the recording and analyzing of sampled data values across a configurable integer value range with configurable value precision within the range. Value precision is expressed as the number of significant digits in the value recording, and provides control over value quantization behavior across the value range and the subsequent value resolution at any given level.
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Bundle-ManifestVersion: 2
Bundle-Name: HdrHistogram
Bundle-SymbolicName: org.hdrhistogram.HdrHistogram
Bundle-Version: 2.1.12
Created-By: Apache Maven Bundle Plugin
Export-Package: org.HdrHistogram;version="2.1.12",org.HdrHistogram.packagearray;version="2.1.12"
Implementation-Title: HdrHistogram
Implementation-Vendor-Id: org.hdrhistogram
Implementation-Version: 2.1.12
Require-Capability: osgi.ee;filter="(&osgi.ee=JavaSE)(version=1.7))"
Specification-Title: HdrHistogram
Specification-Version: 2.1.12
Tool: Bnd-2.3.0.201405100607

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
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# Get modification time of a file or directory and pretty-print it.

scriptversion=2010-08-21.06; # UTC

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1.1960 dogpile-cache 1.1.3

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1.1961 spring-tx 5.2.10.RELEASE

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* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-
  jar/org/apache/commons/logging/impl/AvalonLogger.java
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* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/SimpleLog.java

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* /opt/cola/permits/1135953085_1613641336.59/0/commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/package.html
1.1963 doxia-core 1.1.2
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* /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
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  jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
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  jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-
  jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-
  jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
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  jar/io/netty/handler/ssl/SniCompletionEvent.java
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  jar/io/netty/handler/ssl/ocsp/package-info.java
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 * /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
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jar/io/netty/handler/ssl/BouncyCastle.java
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jar/io/netty/handler/ssl/SslContextOption.java
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* /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-
  jar/io/netty/handler/ssl/DelegatingSslContext.java
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  jar/io/netty/handler/ssl/Java8SslUtils.java
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  jar/io/netty/handler/ssl/TrustManagerWrapper.java
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* /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
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* /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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  */opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
  */opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
  */opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
  */opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
  */opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java

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  */opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/pcap/IPPacket.java
  */opt/cola/permits/1167153073_1621579328.79/0/netty-handler-4-1-65-final-sources-jar/io/netty/handler/pcap/package-info.java
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* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/InheritanceDeterminer.java

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

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

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

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

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2.1.1    2.1+2.0.1  2001    PSF    yes
2.1.2    2.1.1     2002    PSF    yes
2.1.3    2.1.2     2002    PSF    yes
2.2 and above  2.1.1  2001-now PSF    yes

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1.1969 maven-reporting-api 2.2.1

1.1970 jackson-xc 2.10.3
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1.1981 jackson-dataformat-yaml 2.8.11

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1.1982 libvpx 1.8.0-191-g503cb8e63a

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1.1984 repoze-lru 0.7

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  jar/com/github/tomakehurst/wiremock/http/RequestListener.java
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* /opt/cola/permits/1178652730_1625715488.61/0/wiremock-1-58-sources-jar/com/github/tomakehurst/wiremock/matching/RequestPattern.java
* /opt/cola/permits/1178652730_1625715488.61/0/wiremock-1-58-sources-jar/com/github/tomakehurst/wiremock/verification/VerificationResult.java
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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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1.1991 govmomi v0.24.0
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package license

import (
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/govmomi/vim25/types"
)

type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag

    name   string
    remove bool
}

func init() {
    cli.Register("license.assign", &assign{ })
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)
    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)
}
func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.
Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }
    host, err := cmd.HostSystemIfSpecified()
if err != nil {
    return err
}

var id string

if host == nil {
    cluster, cerr := cmd.ClusterIfSpecified()
    if cerr != nil {
        return cerr
    }
    if cluster == nil {
        // Default to vCenter UUID
        id = client.ServiceContent.About.InstanceUuid
    } else {
        id = cluster.Reference().Value
    }
    } else {
        id = host.Reference().Value
    }
  }

  if cmd.remove {
      return m.Remove(ctx, id)
  }

  info, err := m.Update(ctx, id, key, cmd.name)
  if err != nil {
      return err
  }

  return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{info}))
}
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*/
package simulator

import (  
    "context"
    "reflect"
    "testing"

    "github.com/vmware/govmomi"
    "github.com/vmware/govmomi/find"
    "github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) {
    ctx := context.Background()
    m := VPX()

    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    am, err := lm.AssignmentManager(ctx)
    if err != nil {
        t.Fatal(err)
    }

    la, err := am.QueryAssigned(ctx, "enoent")
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 0 {
        t.Errorf("unexpected license")
    }

    finder := find.NewFinder(c.Client, false)
    hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
    t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }
    if len(la) != 1 {
        t.Fatal("no licenses")
    }
    if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
        t.Fatal("invalid license")
    }
}

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
    m := ESX()
    defer m.Remove()
    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }
    s := m.Service.NewServer()
    defer s.Close()
    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }
    lm := license.NewManager(c.Client)
    _, err = lm.AssignmentManager(ctx)
    if err != nil {
        t.Fatal("expected error")
    }

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }
    s := m.Service.NewServer()
    defer s.Close()
    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }
    lm := license.NewManager(c.Client)
    _, err = lm.AssignmentManager(ctx)
    if err != nil {
        t.Fatal("expected error")
    }
}

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la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
    m := ESX()

    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    key := "00000-00000-00000-00000-11111"
    labels := map[string]string{"key": "value"}

    info, err := lm.Add(ctx, key, labels)
    if err != nil {
        t.Fatal(err)
    }

    if info.LicenseKey != key {
        t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
    }

    if len(info.Labels) != len(labels) {
        t.Fatalf("expect len(info.Labels) equal to %d; got %d",
len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
t.Fatalf("expect label to be {key:value}; got {%s:%s}",
info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
t.Fatal(err)
}

if len(la) != 2 {
t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
t.Fatalf("expect info.LicenseKey equal to %q; got %q", 
key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
t.Fatalf("expect len(info.Labels) equal to %d; got %d", 
len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
t.Fatalf("expect label to be {key:value}; got {%s:%s}",
la[1].Labels[0].Key, la[1].Labels[0].Value)
}

er = lm.Remove(ctx, key)
if err != nil {
t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
t.Fatal(err)
}

if len(la) != 1 {
t.Fatal("no licenses")
}

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*/

package license

import (  
    "context"  
    "flag"  
    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {  
    *flags.ClientFlag  
    *flags.OutputFlag  

    feature string
    }

func init() {
    cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}"
func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }

    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }

    return cmd.WriteResult(licenseOutput(result))
}

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*/

package license

import 
    "context"
type add struct {
  *flags.ClientFlag
  *flags.OutputFlag
}

func init() {
  cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)
  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag(Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }
  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }
  return nil
}

func (cmd *add) Usage() string {
  return "KEY...
"
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }
  m := license.NewManager(client)
// From the vSphere 5.5 documentation:
//
// To specify the edition type and any optional functions, use
// updateLicense for ESX Server and addLicense follow by
// LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
//
// var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
// switch t := client.ServiceContent.About.ApiType; t {
// case "HostAgent":
// addFunc = m.Update
// case "VirtualCenter":
// addFunc = m.Add
// default:
// return fmt.Errorf("unsupported ApiType: %s", t)
// }

result := make(licenseOutput, 0)
for _, v := range f.Args() {
    license, err := addFunc(ctx, v, nil)
    if err != nil {
        return err
    }
    result = append(result, license)
}
return cmd.WriteResult(licenseOutput(result))

#!/usr/bin/env bats
load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
    if [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
        skip "requires evaluation license"
    fi
}

get_key() {
    jq ".[1] | select(.LicenseKey == "$1\")"
}

get_property() {
    jq -r ".Properties[1] | select(.Key == "$1\") .Value"
}
get_label() {

govc license.ls -json | jq ".[] | select(.LicenseKey == "$1") | .Labels[] | select(.Key == "$2") | .Value"
}

get_nlabel() {

govc license.ls -json | jq ".[] | select(.LicenseKey == "$1") | .Labels[].Key" | wc -l
}

@test "license.add" {

esx_env

verify_evaluation

run govc license.add -json 00000-00000-00000-00000-00000 | 00000-00000-00000-00000-00000-00002

assert_success

# Expect to see an entry for both the first and the second key
assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00000 <<<${output} | get_property diagnostic)"

assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"
}

@test "license.remove" {

esx_env

verify_evaluation

run govc license.remove -json 00000-00000-00000-00000-00000

assert_success
}

@test "license.ls" {

csim_env

verify_evaluation

run govc license.ls -json

assert_success

# Expect the test instance to run in evaluation mode

assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<${output} | jq ".Name")"
}

@test "license.decode" {

esx_env

verify_evaluation
key=00000-00000-00000-00000-00000
assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
  vcsim_env

  key=00000-00000-00000-00000-00000

  assert_equal 0 "$(get_nlabel $key)"
  assert_equal "" "$(get_label $key foo)"

  run govc license.label.set $key foo bar
  assert_success

  assert_equal 1 "$(get_nlabel $key)"
  assert_equal bar "$(get_label $key foo)"

  run govc license.label.set $key biz baz
  assert_success
  run govc license.label.set $key foo bar2
  assert_success

  assert_equal 2 "$(get_nlabel $key)"
  assert_equal bar2 "$(get_label $key foo)"

  run govc license.label.set $key foo ""
  assert_success

  assert_equal 1 "$(get_nlabel $key)"
  assert_equal "" "$(get_label $key foo)"
}
/*
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*/
package simulator

import (  
  "github.com/vmware/govmomi/vim25/methods"  
  "github.com/vmware/govmomi/vim25/mo"  
  "github.com/vmware/govmomi/vim25/soap"  
  "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{  
  LicenseKey: "00000-00000-00000-00000-00000",  
  EditionKey: "eval",  
  Name: "Evaluation Mode",  
  Properties: []types.KeyAnyValue{    
    {Key: "feature", Value: types.KeyValue{      
      Key: "serialuri:2",      
      Value: "Remote virtual Serial Port Concentrator",    
    },    
    {Key: "feature", Value: types.KeyValue{      
      Key: "dvs",      
      Value: "vSphere Distributed Switch",    
    },    
    },  
  }  
}

type LicenseManager struct {  
  mo.LicenseManager
}
func (m *LicenseManager) init(r *Registry) {
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if r.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)  
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {

body := &methods.UpdateLicenseLabelBody{}  

for i := range m.Licenses {
    license := &m.Licenses[i]

    if req.LicenseKey != license.LicenseKey {
        continue
    }

    body.Res = new(types.UpdateLicenseLabelResponse)

    for j := range license.Labels {
        label := &license.Labels[j]

        if label.Key == req.LabelKey {
            if req.LabelValue == "" {
                license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
            } else {
                label.Value = req.LabelValue
                return body
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key:   req.LabelKey,
            Value: req.LabelValue,
        })

        return body
    }

    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey")
    return body
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {

    "Open Source Used In Cisco Nexus Dashboard Fabric Controller 12.0(1) 18386"
if req.EntityId != Map.content().About.InstanceUuid {
  id := types.ManagedObjectReference{
    Type:  "HostSystem",
    Value: req.EntityId,
  }

  if Map.Get(id) == nil {
    return body
  }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
  {EntityId: req.EntityId, AssignedLicense: EvalLicense,},
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
  info := EvalLicense
  info.LicenseKey = key
  info.Labels = labels

  return info
}

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*/
package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type label struct {
    *flags.ClientFlag
}

func init() {
    cli.Register("license.label.set", &label{})
}

func (cmd *label) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
}

func (cmd *label) Usage() string {
    return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {
    return `Set license labels.
Examples:
govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
govc license.label.set 00000-00000-00000-00000-00000 team "" # remove label
govc license.ls -json | jq `.[] | select(.Labels[].Key == "team") | .LicenseKey"
}

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)

if f.NArg() != 3 {
    return flag.ErrHelp
}

req := types.UpdateLicenseLabel{
    This:       m.Reference(),
    LicenseKey: f.Arg(0),
    LabelKey:   f.Arg(1),
    LabelValue: f.Arg(2),
}

_, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
return err

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package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type decode struct {
    *flags.ClientFlag
    *flags.OutputFlag
    feature string
}

func init() {
    cli.Register("license.decode", &decode{ })
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
}
func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
    }

    result = append(result, license)
    }

    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }

    return cmd.WriteResult(licenseOutput(result))
}

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*/

package license

import (  
"context"  
"strconv"  
"strings"  
"github.com/vmware/govmomi/object"  
"github.com/vmware/govmomi/vim25"
type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }
    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }
    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }
    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
if err != nil {
    return types.LicenseManagerLicenseInfo{}, err
}

return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }

    return &AssignmentManager{mlm.LicenseManager}, nil
}
if err != nil {
    return nil, err
}

if mlm.LicenseAssignmentManager == nil {
    return nil, object.ErrNotSupported
}

am := AssignmentManager{
    object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}

return &am, nil

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")
    lf.name = f[0]
    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }

    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)
    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }

        kv, ok := p.Value.(types.KeyValue)
if !ok {
    continue
}

lf := parseLicenseFeature(kv.Key)

if lf.name == feature.name && lf.level >= feature.level {
    return true
}

return false

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList
    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }
    return result
}

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*/

package license

import (  
    "context"
type remove struct {
  *flags.ClientFlag
  *flags.OutputFlag
}

func init() {
  cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)
  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }
  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }
  return nil
}

func (cmd *remove) Usage() string {
  return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }
  m := license.NewManager(client)
  for _, v := range f.Args() {
    err = m.Remove(ctx, v)
    if err != nil {
      return err
    }
  }
  return nil
}
return err
}
}

return nil
}
/
*/

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*/

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  "github.com/vmware/govmomi/govc/cli"  "github.com/vmware/govmomi/govc/flags"  "github.com/vmware/govmomi/license"  "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {  *flags.ClientFlag  *flags.OutputFlag
  id string
}

func init() {  cli.Register("license.assigned.ls", &assigned{})}
func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }

    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s", v.EntityId)
        fmt.Fprintf(tw, "%s", v.Scope)
fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
fmt.Fprintf(tw, "\n")
}
return tw.Flush()
}

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*/

package license

import (  
"fmt"  
"io"  
"os"  
"text/tabwriter"

"github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Key: Edition: Used: Total:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s", v.LicenseKey)
        fmt.Fprintf(tw, "%s", v.EditionKey)
        fmt.Fprintf(tw, "%d", v.Used)
        fmt.Fprintf(tw, "%d", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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*/

package license

import (  
    "context"
    "github.com/vmware/govmomi/object"
type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }

    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }

    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res, nil
}
1.1992 procps 3.3.10

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1.1993 jetty-security 9.4.39.v20210325

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

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

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Oracle

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

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

------
Oracle OpenJDK

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module is selected.

* java.sun.security.ssl

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

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

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

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MortBay

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

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1994 redhat-rpm-config 9.1.0 88.el7.centos

1.1995 spring-data-elasticsearch

3.2.6.RELEASE

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1.1997 wildfly-elytron-sasl 1.10.3.Final

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1.1998 maven-plugin-descriptor 2.2.1
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1.2004 cpp 4.8.5-44.el7_9.0atomix1

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jar/io/netty/handler/codec/http/websocket/WebSocket07FrameEncoder.java
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
* /opt/cola/permits/1106732871_1605662075.52/0/netty-codec-http-4-1-53-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java

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  jar/io/netty/handler/codec/http/websocketx/extensions/ServerCookieEncoder.java
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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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- 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
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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1.2048 java-cc 7.0.5

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* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/parser/NonTerminal.java
* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/jjtree/ASTBNF.java
* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/parser/RegExprSpec.java
* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/parser/Lookahead.java
* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/parser/TokenUtils.java
* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/parser/RChoice.java
* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/parser/NormalProduction.java
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* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/jjtree/ASTBNFDeclaration.java
* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/parser/RRRepetitionRange.java
* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/parser/MetaParseException.java
* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/jjtree/JSTjavadoc.java
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* /opt/cola/permits/1150250273_1627682347.89/0/javacc-7-0-5-sources-jar/org/javacc/parser/ParseGen.java
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 */

${SUPPORT_CLASS_VISIBILITY_PUBLIC?public :}interface TokenManager {

/** This gets the next token from the input stream.
 * A token of kind 0 (EOF) should be returned on EOF.
 */
public Token getNextToken();

}

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1.2050 lucene 8.4.0

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* /opt/cola/permits/1164470155_1620938113.87/0/json-path-0-8-1-sources-1-
  jar/com/jayway/jsonpath/internal/PathTokenizer.java
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Class, field, and method level annotations for describing thread-safety policies.

Three class-level annotations describe the intended thread-safety promises of a class: @Immutable, @ThreadSafe, and @NotThreadSafe. @Immutable means that the class is immutable, and implies @ThreadSafe. @NotThreadSafe is optional; if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use @NotThreadSafe.

These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with @Immutable actually is immutable.
The class-level annotations above are part of the public documentation for the class. Other aspects of a class’s thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

The `<code>@GuardedBy(lock)</code>` annotation documents that a field or method should be accessed only with a specific lock held.

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* /opt/cola/permits/1135913176_1613629761.33/0/jcip-annotations-1-0-sources-2-jar/net/jcip/annotations/GuardedBy.java
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/websockets/core/function/ChannelFunctionStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/util/ClosingChannelExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/predicate/MinContentSizePredicate.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/security/idm/PasswordCredential.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/util/Cookies.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/websockets/core/function/ChannelFunctionFileChannel.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/io/IoCallback.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/server/HandlerWrapper.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/server/handlers/AccessControlHandler.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/server/handlers/SslHeaderHandler.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/server/handlers/proxy/ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/server/handlers/SSLHeaderHandler.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/attribute/ConstantExchangeAttribute.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/server/handlers/cache/LimitedBufferSlicePool.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/server/protocol/ajp/AjpServerRequestConduit.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/server/ConduitWrapper.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/protocols/http2/Http2WindowUpdateStreamSinkChannel.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources.jar/io/undertow/security/idm/GSSContextCredential.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/server/OpenListener.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/security/handlers/AuthenticationCallHandler.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/client/ClientConnection.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-websockets/core/protocol/version13/WebSocket13Channel.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/predicate/PathTemplatePredicate.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/protocols/alpn/ALPNManager.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/server/handlers/RequestLimitingHandler.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-websockets/core/WebSockets.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/server/handlers/proxy/HostTable.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/util/StringReadChannelListener.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/security/api/GSSAPIServerSubjectFactory.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/util/CopyOnWriteMap.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/security/implement/BasicAuthenticationMechanism.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/security/implement/AuthenticatedSessionManager.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/io/AsyncReceiverImpl.java
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/client/ajp/AjpClientProvider.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/util/ConcurrentDirectDeque.java
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/websockets/core/BufferedBinaryMessage.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/server/protocol/framed/FrameHeaderData.java
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/server/handlers/builder/PredicatedHandlersParser.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/protocols/ajp/AjpResponseParser.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/server/handlers/proxy/ProxyClient.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/predicate/PredicateParser.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/websockets/core/WebSocketFrameType.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/server/handlers/HttpTraceHandler.java
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/server/handlers/HttpTraceHandler.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/UndertowMessages.java
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/protocols/ajp/AbstractAjpClientStreamSourceChannel.java
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/conduits/HeadStreamSinkConduit.java
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/attribute/PathParameterAttribute.java
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/protocols/alpn/AlpnProvider.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/security/impl/FormAuthenticationMechanism.java
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow/server/handlers/form/FormParserFactory.java
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 */

/**
 * Encodes and decodes to and from Base64 notation.
 */

<code>String encoded = Base64.encode( myByteArray );</code>
<code>byte[] myByteArray = Base64.decode( encoded );</code>
* The `<tt>options</tt>` parameter, which appears in a few places, is used to pass several pieces of information to the encoder.
* In the "higher level" methods such as `encodeBytes(bytes, options)` the options parameter can be used to indicate such things
* as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered
* dialects.
* </p>
* </p>

* Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations should not add
* line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines
* by default.
* </p>
* </p>

* The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:
* </p>
* </p>

* `<code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>`
* </p>
* to compress the data before encoding it and then making the output have newline characters.
* </p>
* </p>

* Also...
* </p>
* </p>

* `<code>String encoded = Base64.encodeBytes(crazyString.getBytes());</code>`
* *
* *

* Change Log:
* </p>
* *

* `<li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character
* but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better
* handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad
* characters in it.</li>

* `<li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was
* not properly shrunk and contained an extra (null) byte that made it into the string.</li>

* `<li>v2.3.5 - Fixed bug in `<tt>encodeFromFile</tt>` where estimated buffer size was wrong for files of size 31,
* bytes.</li>
* v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the Base64 encoding
* (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also
* added experimental support for specifying a class loader when using the
* \{@link #decodeToObject(String, int, ClassLoader)\} method.</li>
* v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so
* forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException explicitly
* inline.</li>
* v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the
* code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using
* the \{@link #encodeBytesToBytes(byte[])\} family of methods (and not using the gzip options which uses a different mechanism
* with streams and stuff).</li>
* v2.3.1 - Added \{@link #encodeBytesToBytes(byte[], int, int, int)\} and some similar helper methods to be more efficient
* with memory by not returning a String but just a byte array.</li>
* v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes queued up and
* finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone
* else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or
* something similar. Here are some changes that may affect you:
* ul>
* <li><em>Does not break lines, by default.</em> This is to keep in compliance with <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>.</li>
* <li><em>Throws exceptions instead of returning null values.</em> Because some operations (especially those that may permit
* the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOException rather than return null if ever there's an
* error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been done
* this way to begin with.</li>
* <li><em>Removed all references to System.out, System.err, and the like.</em> Shame on me. All I can say is sorry they were
* ever there.</li>
* <li><em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed such as when passed arrays are null or
* offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before for people who
* were thorough in their own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~&lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a
* main() method to
* support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
* </ol>
* <ol>
* <li>The default is RFC3548 format.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name
* friendly format as described in
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name
* friendly format that preserves
* lexical ordering as described in http://www.faqs.org/qa/rfcq-1940.html</li>
* </ol>
* Special thanks to Jim Kellerman at http://www.powerset.com for contributing the new
* Base64 dialects.</li>
*
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods
* for reading and
* writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like
* EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.
* The code
* now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally
* things are
* cleaner. You'll probably have to change some method calls that you were making to support the new options
* format (</li>
* <tt>int</tt>) that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode( String s, boolean
* gzipCompressed )</tt>.</li>
* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to
* embed
* base64 data in an otherwise "normal" stream (like an XML file).</li>
* <li>v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP
* streams. Added
* the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if
* not
* completely full, was not returned.</li>
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.

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@author Robert Harder
@version 2.3.7

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io.undertow.protocols.alpn.JettyAlpnProvider
io.undertow.protocols.alpn.JDK9AlpnProvider
io.undertow.protocols.alpn.OpenSSLAlpnProvider

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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/META-INF/services/io.undertow.protocols.alpn.ALPNProvider
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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2-0-30-final-sources-jar/io/undertow/protocols/ssl/SNISSLExplorer.java
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 * An extension to {link AbstractConfidentialityHandler} that uses the Host header from the incoming message
 and specifies the
 * confidential address by just switching the port.
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
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  jar/io/undertow/security/impl/AbstractSecurityContext.java
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*/
/**
  * Returns an array containing all of the elements in this deque, in
  * proper sequence (from first to last element).
  *
  * <p>The returned array will be "safe" in that no references to it are
  * maintained by this deque. (In other words, this method must allocate
  * a new array). The caller is thus free to modify the returned array.
  *
  * <p>This method acts as bridge between array-based and collection-based
  * APIs.
  *
  * @return an array containing all of the elements in this deque
*/

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* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2.0.30-final-sources.jar/io/undertow/util/PortableConcurrentDirectDeque.java
* /opt/ws_local/PERMITS_SQL/1081992101_1597853319.92/0/undertow-core-2.0.30-final-sources.jar/io/undertow/util/FastConcurrentDirectDeque.java

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*/
/**
** Handler responsible for checking of confidentiality is required for the requested resource and if so rejecting the request
* and redirecting to a secure address.
*
* @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
*/
/**
* Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
* Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual SSLSession.
*
* @param exchange - The { @link HttpServerExchange} for the request being processed.
* @return true if the request is 'sufficiently' confidential, false otherwise.
Use the HttpServerExchange to identify if confidentiality is required.

This method currently returns true for all requests, sub-classes can override this to provide a custom check.

TODO: we should deprecate this and just use a predicate to decide to execute the handler instead

@param exchange - The [link HttpServerExchange] for the request being processed.
@return true if the request requires confidentiality, false otherwise.

All sub-classes are required to provide an implementation of this method, using the HttpServerExchange for the current request return the address to use for a redirect should confidentiality be required and the request not be confidential.

@param exchange - The [link HttpServerExchange] for the request being processed.
@return The [link URI] to redirect to.

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#
# io.undertow.protocols.ssl.SNIAlpnEngineManager
# io.undertow.protocols.alpn.DefaultAlpnEngineManager

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* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/JavaModuleDescriptor.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/package-info.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/MainClassModuleNameExtractor.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/ModuleInfoParser.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/LocationManager.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/ResolvePathsResult.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/QDoxModuleInfoParser.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/ModuleNameExtractor.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/JavaVersion.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/QDoxModuleInfoParser.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/ResolvePathsRequest.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/ModuleNameExtractor.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/JavaVersion.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/ManifestModuleNameExtractor.java
* /opt/ws_local/PERMITS_SQL/1029740310_1591380292.7/0/plexus-java-0-9-2-sources-
  jar/org/codehaus/plexus/languages/java/jpms/AsmModuleInfoParser.java

1.2069 asm-commons 6.2.1

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/**
 * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see {@link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2-
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
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jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2-
jar/org/objectweb/asm/commons/AnnotationRemapper.java
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jar/org/objectweb/asm/commons/FieldRemapper.java
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jar/org/objectweb/asm/commons/AdviceAdapter.java
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jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
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* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2.jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2.jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2.jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
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* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2.jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2.jar/org/objectweb/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2.jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2.jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2.jar/org/objectweb/asm/commons/RemappingClassAdapter.java
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* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2.jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1144100877_1615842933.63/0/asm-commons-6-2-1-sources-2.jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java

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/**
 * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 *
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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1.2070 activation 1.2.1

1.2071 spring-kafka 2.3.7.RELEASE
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* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/listener/ConsumerAwareBatchErrorHandler.java

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* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/support/converter/ProjectingMessageConverter.java
* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/config/KafkaStreamsCustomizer.java
* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/listener/DeadLetterPublishingRecoverer.java
* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/core/CleanupConfig.java
* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/event/ContainerStoppedEvent.java
* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/event/ConsumerFailedToStartEvent.java
* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/support/AbstractKafkaHeaderMapper.java
* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/support/serializer/DeserializationException.java
* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/listener/AfterRollbackProcessor.java
* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/config/AbstractKafkaListenerContainerFactory.java
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* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-jar/org/springframework/kafka/config/ConcurrentKafkaListenerContainerFactory.java
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* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-
  jar/org/springframework/kafka/core/KafkaTemplate.java
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  jar/org/springframework/kafka/support/LoggingProducerListener.java
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  jar/org/springframework/kafka/listener/BatchAcknowledgingMessageListener.java
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  jar/org/springframework/kafka/support/serializer/JsonDeserializer.java
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* /opt/cola/permits/1150249943_1627682070.15/0/spring-kafka-2-3-7-release-sources-1-
jar/org/springframework/kafka/support/serializer/DelegatingSerializer.java
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jar/org/springframework/kafka/listener/ContainerProperties.java
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jar/org/springframework/kafka/core/DefaultKafkaProducerFactory.java

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* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/ChannelLoggerImpl.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/PartialForwardingClientCallListener.java
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jar/io/grpc/PartialForwardingClientCall.java
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jar/io/grpc/internal/ServiceConfigInterceptor.java
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jar/io/grpc/internal/ForwardingClientStream.java

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* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/PickFirstBalancerFactory.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/ServerTransport.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/Codec.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/ManagedChannel.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/CompressorRegistry.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/WritableBufferAllocator.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/InProcessTransport.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/StatusException.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/Contexts.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/NameResolver.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/internal/InternalSubchannel.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/internal/DelayedClientTransport.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/internal/SerializeReentrantCallsDirectExecutor.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/ServerBuilder.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/ForwardingClientCallListener.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/inprocess/InProcessChannelBuilder.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/PartialForwardingServerCall.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/EquivalentAddressGroup.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/internal/DelayedStream.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/internal/BackoffPolicy.java
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* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/ForwardingServerCallListener.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/ServerProvider.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/internal/DnsNameResolverProvider.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/internal/ContextRunnable.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/internal/Http2Ping.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/inprocess/InProcessServer.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/Decompressor.java
* /opt/cola/permits/1142949806_1615493959.2/grpc-core-1-20-0-sources-jar/io/grpc/StatusRuntimeException.java

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  */opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/ServerTransportFilter.java
  */opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/LogExceptionRunnable.java
  */opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/InternalKnownTransport.java
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  */opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/ManagedClientTransport.java
  */opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/InternalDecompressorRegistry.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/CallCredentialsApplyingTransportFactory.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/InUseStateAggregator.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/ConnectionClientTransport.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/ManagedChannelImpl.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/ConnectivityStateInfo.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/Grpc.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/inprocess/InProcessSocketAddress.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/LoadBalancer.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/BindableService.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/NameResolverProvider.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/InProcessSocketAddress.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/IoUtils.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/KeepAliveManager.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/MetadataApplierImpl.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/internal/StatsTraceContext.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/InternalMethodDescriptor.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/InternalMetadata.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/InternalNotifyOnServerBuild.java
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* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/InternalHandlerRegistry.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/NameResolverProvider.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/InternalHandlerRegistry.java
* /opt/cola/permits/1142949806_1615493959.2/0/grpc-core-1-20-0-sources-jar/io/grpc/NameResolverProvider.java
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5  7936 12799    4864 2.4M
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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

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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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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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
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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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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is
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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.

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application/vnd.apple.installer+xml
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# audio/gsm
# audio/gsm-efr
# audio/gsm-hr-08
# audio/ilbc
# audio/ip-mr_v2.5
# audio/isac
# audio/l16
# audio/l20
# audio/l24
# audio/l8
# audio/lpc
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# audio/mobile-xmf
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# audio/mp4a-latm
# audio/mpa
# audio/mpa-robust
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# audio/mpeg4-generic
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# audio/opus
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# audio/pcma
# audio/pcma-wb
# audio/pcmu
# audio/pcmu-wb
# audio/prs.sid
# audio/qcelp
# audio/raptorfec
# audio/red
# audio/rtp-enc-aescm128
# audio/rtp-midi
# audio/rtploopback
# audio/rtx
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# audio/smv-qcp
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# message/global-disposition-notification
# message/global-headers
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# message/imdn+xml
# message/news
# message/partial
message/rfc822	eml mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
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# message/vnd.wfa.wsc
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# video/raw
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# video/rtploopback
# video/rtx
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# video/ulpfec
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# video/vnd.dece.mp4
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# video/vnd.directv.mpeg-tts
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# video/vp8
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video/x-flv
video/x-m4vm4v
video/x-matroskamkv mk3d mks
video/x-mngmng
video/x-ms-asf asx
video/x-ms-vobvob
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x-conference/x-cooltalkice

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*/

/**
* Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
* client, or with a new session id either because the client did not
* specify one or because the underlying session had expired. Use of this
* method does not automatically create a session. See {@link WebSession}
* for more details.
*/

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Found in path(s):
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  jar/org/springframework/web/server/WebFilter.java
  */opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
  jar/org/springframework/web/server/WebFilterChain.java
  */opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
  jar/org/springframework/web/bind/annotation/SessionAttributes.java
  */opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
  jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java
  */opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
  jar/org/springframework/web/bind/annotation/RequestMethod.java
  */opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
  jar/org/springframework/web/cors/CorsUtils.java
  */opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
  jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
  */opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
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  */opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
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  */opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
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  */opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-
  jar/org/springframework/http/HttpMessage.java

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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources.jar/org/springframework/web/bind/annotation/Mapping.java
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources.jar/org/springframework/web/HttpMediaTypeException.java
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/http/client/OkHttp3ClientHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/method/annotation/MethodArgumentTypeMismatchException.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/util/AbstractUriTemplateHandler.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/remoting/caucho/HessianClientInterceptor.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/context/request/async/AsyncWebRequest.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/context/support/LiveBeansViewServlet.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/bind/ServletRequestDataBinder.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/converter/feed/RssChannelHttpMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/context/support/PatternParseException.java
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/multipart/MultipartException.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources-jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java

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Java Files:
- `/opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources/jar/org/springframework/web/multipart/MultipartFile.java`
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- `/opt/ws_local/PERMITS_SQL/1069262473_1594595051.62/0/spring-web-5-1-9-release-sources/jar/org/springframework/web/util/CookieGenerator.java`
jar/org/springframework/http/codec/multipart/SynchronossPartHttpMessageReader.java
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jar/org/springframework/web/server/MethodNotAllowedException.java
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jar/org/springframework/web/method/ControllerAdviceBean.java
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
jar/org/springframework/web/bind/MissingRequestCookieException.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
jar/org/springframework/web/context/request/AbstractRequestAttributes.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
jar/org/springframework/web/http/client/reactive/JettyResourceFactory.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
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* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
jar/org/springframework/web/util/pattern/LiteralPathElement.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
jar/org/springframework/http/convert/protobuf/ProtobufJsonFormatHttpMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
jar/org/springframework/http/server/reactive/TomcatHttpHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
jar/org/springframework/web/server/session/DefaultWebSessionManager.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
jar/org/springframework/web/accept/PathExtensionContentNegotiationStrategy.java
* /opt/ws_local/PERMITS_SQL/1069262473_1594595051.620/spring-web-5-1-9-release-sources-
jar/org/springframework/web/accept/ContentNegotiationManager.java
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.2088 maven-repository-metadata 2.0.6

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jar/\texttt{org/springframework/framework/transaction/jta/JtaAfterCompletionSynchronization.java}
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jar/\texttt{org/springframework/framework/transaction/support/TransactionSynchronizationAdapter.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/dao/DeadlockLoserDataAccessException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/transaction/TransactionException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/transaction(TransactionSuspensionNotSupportedException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/dao/InvalidDataAccessApiUsageException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/dao/PermissionDeniedDataAccessException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/jca/cci/connection/NotSupportedRecordFactory.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/transaction/TransactionSuspensionNotSupportedException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/dao/InvalidDataAccessResourceUsageException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/dao/RecoverableDataAccessException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/transaction/jta/UserTransactionAdapter.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/transaction/PessimisticLockingFailureException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/transaction/TransactionTimedOutException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/transaction/support/ResourceTransactionManager.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/dao/TypeMismatchDataAccessException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
jar/\texttt{org/springframework/framework/transaction/UnexpectedRollbackException.java}
* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
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* /opt/cola/permits/1136843046_1613931239.01/0/spring-tx-5-2-2-release-sources-2-
* jar/org/springframework/transaction/support/ResourceHolder.java

1.2091 asm-commons 7.1
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/**
* Constructs a new { @link LocalVariablesSorter }. <i>Subclasses must not use this constructor</i>.
* Instead, they must use the { @link #LocalVariablesSorter(int, int, String, MethodVisitor)}
* version.
* *
* @param access access flags of the adapted method.
* @param descriptor the method's descriptor (see [@link Type]).
* @param methodVisitor the method visitor to which this adapter delegates calls.
* @throws IllegalStateException if a subclass calls this constructor.
*)

Found in path(s):
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
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/**
 * Constructs a new [@link GeneratorAdapter]. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 * *
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see [@link Opcodes]).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see [@link Type]).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
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* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/MethodRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/AnalyzerAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/SignatureRemapper.java

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* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
  jar/org/objectweb/asm/commons/package.html
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/**
 * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 *
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */
Found in path(s):
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java

1.2092 jetty-servlet 9.4.11.v20180605

1.2093 jfreechart 1.0.12

1.2093.1 Available under license :

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1.2103 nio-multipart-parser 1.1.0

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* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/ref/References.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/ref/Reaper.java
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* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/ref/PhantomReference.java
jar/org/wildfly/common/array/Arrays2.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/os/Substitutions.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/flags/Flags.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/net/GetHostInfoAction.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/net/Substitutions.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/iteration/EnumerationIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/lock/Locks.java

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* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/iteration/Latin1DecodingIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/iteration/StringIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/iteration/ByteIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/iteration/LimitedByteIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/function/Functions.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-
jar/org/wildfly/common/iteration/LittleEndianBase64EncodingIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/BigEndianBase64DecodingByteIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/ByteIteratorInputStream.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/IndexIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/DelimitedCodePointIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/net/CidrAddressTable.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/Base16EncodingCodePointIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/os/Process.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/Utf8EncodingByteIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/math/HashMath.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/net/CidrAddress.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/rpc/package-info.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/expresssion/ResolveContext.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/IntIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/ByteArrayIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/bytes/ByteStringBuilder.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/codec/DecodeException.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/LittleEndianBase64DecodingByteIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/BigEndianBase32EncodingIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/codec/Alphabet.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/BiDirIntIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/ByteArrayIterator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/iteration/ByteBufferIterator.java
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* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/cpu/package-info.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/cpu/CacheType.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/cpu/CacheType.java
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* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionObjLongConsumer.java
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* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionUnaryOperator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/context/ContextPermissionCollection.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionToLongBiFunction.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionRunnable.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionPredicate.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionSupplier.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/annotation/Nullable.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/context/ContextPermission.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/annotation/NotNull.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionToLongFunction.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionIntFunction.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionToIntBiFunction.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/context/package-info.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionBiFunction.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/_private/CommonMessages.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/context/ContextManager.java
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* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionConsumer.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionFunction.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionBiPredicate.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionBinaryOperator.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionObjIntConsumer.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/context/Contextual.java
* /opt/ws_local/PERMITS_SQL/1074948456_1596002265.95/0/wildfly-common-1-5-1-final-sources-jar/org/wildfly/common/function/ExceptionBiConsumer.java

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### 1.2107 resteasy-jax-rs 2.2.1.GA

#### 1.2107.1 Available under license:

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```java
/**
 * Encodes and decodes to and from Base64 notation.
 *
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a></p>
 * <p>Example:</p>
 * <code>String encoded = Base64.encode( myByteArray );</code>
 * <br/>
 * <code>byte[] myByteArray = Base64.decode( encoded );</code>
 * <p>
 * The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds,
 * and encoding using the URL-safe and Ordered dialects.</p>
 * <p>Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>,
 * Section 2.1, implementations should not add line feeds unless explicitly told
 * to do so. I've got Base64 set to this behavior now, although earlier versions
 * broke lines by default.</p>
 * <p>The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:</p>
 * <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>
```
* <p>to compress the data before encoding it and then making the output have newline characters.</p>
* <p>Also...</p>
* <code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>

* Change Log:
* </p>
* <ul>
* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 011111111, which is an invalid base 64 character but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.</li>
* <li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.</li>
* <li>v2.3.5 - Fixed bug in {@link #encodeFrom} where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.</li>
* <li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a class loader when using the</li>
* <li>[@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)] method.</li>
* <li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException explicitly inline.</li>
* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using the {@link #encodeBytesToBytes(byte[])} family of methods (and not using the gzip options which uses a different mechanism with streams and stuff).</li>
* <li>v2.3.1 - Added {@link #encodeBytesToBytes(byte[], int, int, int)} and some similar helper methods to be more efficient with memory by not returning a String but just a byte array.</li>
* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes queued up and finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or something similar. Here are some changes that may affect you:</li>
* <ul>
* <li>Does not break lines, by default</li>
</ul>

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* <li><em>Throws exceptions instead of returning null values.</em> Because some operations
* (especially those that may permit the GZIP option) use IO streams, there
* is a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions
* rather than return null if ever there's an error. I think this is more
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* <li><em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed
* such as when passed arrays are null or offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.</li>
* This was especially annoying before for people who were thorough in their
* own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~&lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* </li>
* <ol>
* <li>The default is RFC3548 format.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
* URL and file name friendly format that preserves lexical ordering as described
* </ol>
* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a>
* for contributing the new Base64 dialects.
* </li>
* <p/>
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</p>
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</p>
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</p>
* v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).</li>
* v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.
* Added the ability to “suspend” encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise “normal” stream (like an XML file).
* <li>v1.5 - Output stream pases on flush() command but doesn’t do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them. </li>
* <li>v1.4 - Added helper methods to read/write files. </li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that ‘position’ is reset. </li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned. </li>
* <li>v1.3.4 - Fixed when “improperly padded stream” error was thrown at the wrong time. </li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up. </li>
* <ul>
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* plenty of well-wishing instead!
* Please visit http://iharder.net/base64 periodically to check for updates or to contribute improvements.
* </ul>
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

Found in path(s):
* /opt/cola/permits/1111238453_1606883115.99/0/resteasy-jaxrs-2-2-1-ga-sources-1-
jar/org/jboss/resteasy/util/Base64.java

1.2108 crimson 1.1.3

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*/
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its [ @link ChannelPipeline].
 *
 * <h3>Sub-types</h3>
 * <p>
* [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes:
  * <ul>
  * <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
  * <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
  * </ul>
  * </p>
  * <p>
  * Alternatively, the following adapter classes are provided for your convenience:
  * <ul>
  * <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
  * <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
  * <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
  * </ul>
  * </p>
  * <p>
  * For more information, please refer to the documentation of each subtype.
  * </p>
  *
  * <h3>The context object</h3>
  *
  * A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext] object. A [@link ChannelHandler] is supposed to interact with the
  * [@link ChannelPipeline] it belongs to via a context object. Using the
  * context object, the [@link ChannelHandler] can pass events upstream or
  * downstream, modify the pipeline dynamically, or store the information
  * (using [@link AttributeKey]s) which is specific to the handler.
  *
  * <h3>State management</h3>
  *
  * A [@link ChannelHandler] often needs to store some stateful information.
  * The simplest and recommended approach is to use member variables:
  *
  * public interface Message {
  *     // your methods here
  * }
  *
  * public class DataServerHandler extends [@link SimpleChannelInboundHandler] &lt;Message&gt; {
  *
  *     private boolean loggedIn;
  *
  *     {[@code @Override]
  *         public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
  *             if (message instanceof LoginMessage) {
  *                 authenticate((LoginMessage) message);
  *                 loggedIn = true;
  *             } else (message instanceof GetDataMessage) {
  *                 if (loggedIn)
  *                 }
  * }
Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where an unauthenticated client can get
the confidential information:

// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends {@link ChannelInitializer}&{@link Channel} & { @code @Override }
public void initChannel({@link Channel} channel) {
    channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
}

<h4>Using {@link AttributeKey}s</h4>
Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use {@link AttributeKey}s which is provided by
{@link ChannelHandlerContext}:

public interface Message {
    // your methods here
}

{ @code @Sharable }
public class DataServerHandler extends {@link SimpleChannelInboundHandler}&{@link Message} & { 
    private final {@link AttributeKey}&{@link Boolean} & { @link Boolean } & auth = 
        { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};

    { @code @Override }
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        { @link Attribute } & { @link Boolean } & attr = ctx.attr(auth); 
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            <b>attr.set(true)</b>;
        } else (message instanceof GetDataMessage) {
            /*
             * ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
             * else {
             *     fail();
             * } }
             */
        } else { ... }
    }
</pre>

* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&{@link Channel} & { 
*     { @code @Override }
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
* </pre>
* <h4>Using {@link AttributeKey}s</h4>
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* 
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable }
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&{@link Message} & { 
*     private final {@link AttributeKey}&{@link Boolean} & auth = 
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*     
*     { @code @Override }
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute } & { @link Boolean } & attr = ctx.attr(auth); 
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             /*
             * ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
             * else {
             *     fail();
             * } }
             */
        } else { ... }
    }
</pre>
if (Boolean.TRUE.equals(attr.get())) {
    ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
} else {
    fail();
}

Now that the state of the handler is attached to the ChannelHandlerContext, you can add the same handler instance to different pipelines:

public class DataServerInitializer extends ChannelInitializer<Channel> {

    private static final DataServerHandler $SHARED$ = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", $SHARED$);
    }
}

The @Sharable annotation

In the example above which used an AttributeKey, you might have noticed the @Sharable annotation.

If a ChannelHandler is annotated with the @Sharable annotation, it means you can create an instance of the handler just once and add it to one or more ChannelPipelines multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the ChannelHandler, and ChannelPipeline to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
/*

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* /opt/cola/permits/1104729185_1604648830.2/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1104729185_1604648830.2/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1104729185_1604648830.2/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1104729185_1604648830.2/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
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* /opt/cola/permits/1104729185_1604648830.2/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
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* /opt/cola/permits/1104729185_1604648830.2/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/AbstractEventLoop.java
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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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When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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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.

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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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### 1.2117 activation-api 1.1

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 * </blockquote>
 * *
 * This class is designed to sit between an { @link org.xml.sax.XMLReader
 * XMLReader} and the client application's event handlers. By default, it
 * does nothing but pass requests up to the reader and events
 * on to the handlers unmodified, but subclasses can override
 * specific methods to modify the event stream or the configuration
 * requests as they pass through.</p>
 * *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLFilter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */

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/**
 * Basic interface for SAX error handlers.
 *
 * If a SAX application needs to implement customized error
 * handling, it must implement this interface and then register an
 * instance with the XML reader using the
 * { @link org.xml.sax.XMLReader#setErrorHandler setErrorHandler }

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* method. The parser will then report all errors and warnings
* through this interface.</p>
* 
* <p><strong>WARNING:</strong> If an application does <em>not</em> register an ErrorHandler, XML parsing errors will go unreported
* and bizarre behaviour may result.</p>
* 
* <p>For XML processing errors, a SAX driver must use this interface
* instead of throwing an exception: it is up to the application
* to decide whether to throw an exception for different types of
* errors and warnings. Note, however, that there is no requirement that
* the parser continue to provide useful information after a call to
* [ @link fatalError ] (in other words, a SAX driver class
* could catch an exception and report a fatalError).</p>
* 
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setErrorHandler
* @see org.xml.sax.SAXParseException
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ErrorHandler.java
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// NO WARRANTY! This class is in the public domain.
/**
* Interface for a list of XML attributes.
* 
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>. 
* </blockquote>
* 
* This interface allows access to a list of attributes in
* three different ways:
* 
* <ol>
* <li>by attribute index;</li>
* <li>by Namespace-qualified name; or</li>
* <li>by qualified (prefixed) name.</li>
* </ol>
* 
* The list will not contain attributes that were declared
* #IMPLIED but not specified in the start tag. It will also not
* contain attributes used as Namespace declarations (xmlns*) unless
* the <code>http://xml.org/sax/features/namespace-prefixes</code> feature is set to <var>true</var> (it is <var>false</var> by default).</p>

* <p> If the namespace-prefixes feature (see above) is <var>false</var>, access by qualified name may not be available; if the <code>http://xml.org/sax/features/namespaces</code> feature is <var>false</var>, access by Namespace-qualified names may not be available.</p>

* <p>This interface replaces the now-deprecated SAX1 { @link org.xml.sax.AttributeList AttributeList} interface, which does not contain Namespace support. In addition to Namespace support, it adds the <var>getIndex</var> methods (below).</p>

* <p>The order of attributes in the list is unspecified, and will vary from implementation to implementation.</p>

* <p>@since SAX 2.0</p>

* <p>@author David Megginson, <a href="mailto:sax@megginson.com">sax@megginson.com</a></p>

* <p>@version 2.0</p>

* <p>@see org.xml.sax.helpers.AttributeListImpl</p>

*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Attributes.java

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/**
 * Default implementation for AttributeList.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>AttributeList implements the deprecated SAX1 { @link org.xml.sax.AttributeList AttributeList} interface, and has been replaced by the new SAX2 { @link org.xml.sax.helpers.AttributesImpl AttributesImpl} interface.</p>
 *
 * <p>This class provides a convenience implementation of the SAX { @link org.xml.sax.AttributeList AttributeList} interface. This implementation is useful both for SAX parser writers, who can use it to provide attributes to the application, and for SAX application writers, who can use it to create a persistent copy of an element's attribute specifications:</p>
* private AttributeList myatts;
* public void startElement (String name, AttributeList atts)
  { 
    // create a persistent copy of the attribute list
    // for use outside this method
    myatts = new AttributeListImpl(atts);
    [...]
  }
/*
<p>Please note that SAX parsers are not required to use this
class to provide an implementation of AttributeList; it is
supplied only as an optional convenience. In particular,
parser writers are encouraged to invent more efficient
implementations.</p>

@deprecated This class implements a deprecated interface,
{@link org.xml.sax.AttributeList AttributeList};
that interface has been replaced by
{@link org.xml.sax.Attributes Attributes},
which is implemented in the
{@link org.xml.sax.helpers.AttributesImpl AttributesImpl} helper class.
@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.AttributeList
@see org.xml.sax.DocumentHandler#startElement
*/

Found in path(s):
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributeListImpl.java
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for an XML filter.
 *
 * @blockquote
 * @em>This module, both source code and documentation, is in the
 * Public Domain, and comes with @strong>NO WARRANTY</strong>.</em>
 * @blockquote
 */
An XML filter is like an XML reader, except that it obtains its 
events from another XML reader rather than a primary source like 
an XML document or database. Filters can modify a stream of 
events as they pass on to the final application.</p>

The XMLFilterImpl helper class provides a convenient base 
for creating SAX2 filters, by passing on all EntityResolver, DTDHandler, ContentHandler, and ErrorHandler 
events automatically.

@since SAX 2.0
@version 2.0
@see org.xml.sax.helpers.XMLFilterImpl

Interface for associating a SAX event with a document location.

This module, both source code and documentation, is in the
Public Domain, and comes with NO WARRANTY.

If a SAX parser provides location information to the SAX 
application, it does so by implementing this interface and then 
passing an instance to the application using the content 
handler's ContentHandler#setDocumentLocator method. The application can use the 
object to obtain the location of any other content handler event 
in the XML source document.

Note that the results returned by the object will be valid only 
during the scope of each content handler method: the application 
will receive unpredictable results if it attempts to use the 
locator at any other time.

SAX parsers are not required to supply a locator, but they are 
very strongly encouraged to do so. If the parser supplies a 
locator, it must do so before reporting any other document events. 
If no locator has been set by the time the application receives 
the ContentHandler#startDocument
* event, the application should assume that a locator is not
* available.</p>
*
* @since SAX 1.0
* @author David Megginson,
*       <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.ContentHandler#setDocumentLocator
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Locator.java
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/**
* Receive notification of basic DTD-related events.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* If a SAX application needs information about notations and
* unparsed entities, then the application implements this
* interface and registers an instance with the SAX parser using
* the parser's setDTDHandler method. The parser uses the
* instance to report notation and unparsed entity declarations to
* the application.</p>
*
* Note that this interface includes only those DTD events that
* the XML recommendation <em>requires</em> processors to report:
* notation and unparsed entity declarations.</p>
*
* The SAX parser may report these events in any order, regardless
* of the order in which the notations and unparsed entities were
* declared; however, all DTD events must be reported after the
* document handler's startDocument event, and before the first
* startElement event.</p>
*
* It is up to the application to store the information for
* future use (perhaps in a hash table or object tree).
* If the application encounters attributes of type "NOTATION",
* "ENTITY", or "ENTITIES", it can use the information that it
* obtained through this interface to find the entity and/or
* notation corresponding with the attribute value.</p>
*
* @since SAX 1.0
* @author David Megginson,
Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/DTDHandler.java
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/*
 * Default base class for handlers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class implements the default behaviour for four SAX1 interfaces: EntityResolver, DTDHandler, DocumentHandler, and ErrorHandler. It is now obsolete, but is included in SAX2 to support legacy SAX1 applications. SAX2 applications should use the [org.xml.sax.helpers.DefaultHandler DefaultHandler] class instead.</p>
 *
 * Application writers can extend this class when they need to implement only part of an interface; parser writers can instantiate this class to provide default handlers when the application has not supplied its own.</p>
 *
 * Note that the use of this class is optional.</p>
 *
 * @deprecated This class works with the deprecated [DocumentHandler DocumentHandler] interface. It has been replaced by the SAX2
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 */

/**
 * <strong>DOM Level 3 WD Experimental:
 * The DOM Level 3 specification is at the stage
 * of Working Draft, which represents work in
 * progress and thus may be updated, replaced,
 * or obsoleted by other documents at any time.</strong> <p>
 * <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0
 * expressions with no specialized extension functions or variables. It is
 * expected that the <code>XPathEvaluator</code> interface will be
 * implemented on the same object which implements the <code>Document</code>
 * interface in an implementation which supports the XPath DOM module.
 * <code>XPathEvaluator</code> implementations may be available from other
 * sources that may provide support for special extension functions or
 * variables which are not defined in this specification. The methods of
 * XPathExpression should be named with more-XPath- specific names because
 * the interface will often be implemented by the same object which
 * implements document.No change.The point of interfaces is to localize the
 * implementing namespace. This would make the method names unnecessarily
 * long and complex even though there are no conflicts in the interface
 * itself. The new core method getInterface is designed for discovering
 * interfaces of additional modules that may not be directly implemented on
 * the objects to which they are attached. This could be used to implement
 * XPath on a separate object. The user only refers to the separate
 * interfaces and not the proprietary aggregate implementation.Should entity
 * refs be supported so that queries can be made on them?No change.We will
 * not do this now. They are not part of the XPath data model. Note that
 * they may be present in the hierarchy of returned nodes, but may not
 * directly be requested or returned in the node set.What does createResult
* create when one wants to reuse the XPath? It is not useful. Removed method.
* Should ordering be a separate flag, or a type of result that can be
* requested. As a type of result, it can be better optimized in
* implementations. It makes sense as a type of result. Changed. Removed
* method. Implementing XPathEvaluator on Document can be a problem due to
* conflicts in the names of the methods. The working group finds no better
* solution. GetInterface in Level 3 permits the object to be implemented
* separately. We should be committed to this. We will leave this issue open
* to see if we get more feedback on it. How does this interface adapt to
* XPath 2.0 and other query languages. No change. This interface is not
* intended to adapt to XPath 2.0 or other languages. The models of these
* are likely to be incompatible enough to require new APIs. For alternate
* implementations that can use this API, it can be obtained from different
* sources. Support for custom variables and functions would be very useful.
* No change. It is possible for an implementation to supply alternative
* sources of an XPathEvaluator that can be customized with a custom
* variable and function context. We do not specify how this is
* accomplished. It is too complex to address in this version of the XPath
* DOM.
* <p>See also the &lt;a href='http://www.w3.org/TR/2002/WD-DOM-Level-3-XPath-20020328'&gt;Document Object Model (DOM) Level 3 XPath Specification&lt;/a&gt;.</p>

* Interface for an element's attribute specifications.
* 
* <blockquote>
* &lt;em&gt;This module, both source code and documentation, is in the
* Public Domain, and comes with &lt;strong&gt;NO WARRANTY&lt;/strong&gt;.&lt;/em&gt;
* </blockquote>

* <p>This is the original SAX1 interface for reporting an element's
* attributes. Unlike the new {@link org.xml.sax.Attributes Attributes} interface, it does not support Namespace-related information.&lt;/p&gt;

* <p>When an attribute list is supplied as part of a
* event, the list will return valid results only during the
* scope of the event; once the event handler returns control
* to the parser, the attribute list is invalid. To save a
* persistent copy of the attribute list, use the SAX1
* {@link org.xml.sax.helpers_ATTRIBUTE_LIST_ATTRIBUTE_LIST_IMPL}
* helpers.&lt;/p&gt;
An attribute list includes only attributes that have been specified or defaulted: #IMPLIED attributes will not be included.

There are two ways for the SAX application to obtain information from the AttributeList. First, it can iterate through the entire list:

```java
public void startElement (String name, AttributeList atts) {
  for (int i = 0; i < atts.getLength(); i++) {
    String name = atts.getName(i);
    String type = atts.getType(i);
    String value = atts.getValue(i);
    [...]
  }
}
</pre>

(Note that the result of getLength() will be zero if there are no attributes.)

As an alternative, the application can request the value or type of specific attributes:

```java
public void startElement (String name, AttributeList atts) {
  String identifier = atts.getValue("id");
  String label = atts.getValue("label");
  [...]
}
</pre>

@deprecated This interface has been replaced by the SAX2 Attributes interface, which includes Namespace support.

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.DocumentHandler#startElement startElement
@see org.xml.sax.helpers.AttributeListImpl AttributeListImpl

Found in path(s):
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java
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/**
 * Receive notification of general document events.
 */

* <blockquote>* This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </blockquote>
* 
* This was the main event-handling interface for SAX1; in
* SAX2, it has been replaced by {Link org.xml.sax.ContentHandler
* ContentHandler}, which provides Namespace support and reporting
* of skipped entities. This interface is included in SAX2 only
* to support legacy SAX1 applications.</p>
* 
* The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.</p>
* 
* Application writers who do not want to implement the entire
* interface can derive a class from HandlerBase, which implements
* the default functionality; parser writers can instantiate
* HandlerBase to obtain a default handler. The application can find
* the location of any document event using the Locator interface
* supplied by the Parser through the setDocumentLocator method.</p>
* 
* @deprecated This interface has been replaced by the SAX2
* ContentHandler interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setDocumentHandler
* @see org.xml.sax.Locator
* @see org.xml.sax.HandlerBase
/*/
<p>This class contains static methods for creating an XML reader from an explicit class name, or based on runtime defaults:</p>

<pre>
try {
   XMLReader myReader = XMLReaderFactory.createXMLReader();
} catch (SAXException e) {
   System.err.println(e.getMessage());
}
</pre>

<p><strong>Note to Distributions bundled with parsers:</strong> You should modify the implementation of the no-arguments createXMLReader to handle cases where the external configuration mechanisms aren't set up. That method should do its best to return a parser when one is in the class path, even when nothing bound its class name to org.xml.sax.driver so those configuration mechanisms would see it.</p>

@since SAX 2.0
@version 2.0r2pre3

Found in path(s):
/</p>

// This class is in the Public Domain. NO WARRANTY!
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.</blockquote>
 *
 * <p>This class encapsulates the logic of Namespace processing: it tracks the declarations currently in force for each context and automatically processes qualified XML 1.0 names into their
* Namespace parts; it can also be used in reverse for generating
  * XML 1.0 from Namespaces.</p>
  *
  * <p>Namespace support objects are reusable, but the reset method
  * must be invoked between each session.</p>
  *
  * <p>Here is a simple session:</p>
  *
  * <pre>
  * String parts[] = new String[3];
  * NamespaceSupport support = new NamespaceSupport();
  *
  * support.pushContext();
  * support.declarePrefix("", "http://www.w3.org/1999/xhtml");
  * support.declarePrefix("dc", "http://www.purl.org/dc#");
  *
  * String parts[] = support.processName("p", parts, false);
  * System.out.println("Namespace URI: " + parts[0]);
  * System.out.println("Local name: " + parts[1]);
  * System.out.println("Raw name: " + parts[2]);
  *
  * String parts[] = support.processName("dc:title", parts, false);
  * System.out.println("Namespace URI: " + parts[0]);
  * System.out.println("Local name: " + parts[1]);
  * System.out.println("Raw name: " + parts[2]);
  *
  * support.popContext();
  * </pre>
  *
  * <p>Note that this class is optimized for the use case where most
  * elements do not contain Namespace declarations: if the same
  * prefix/URI mapping is repeated for each context (for example), this
  * class will be somewhat less efficient.</p>
  *
  * @since SAX 2.0
  * @author David Megginson,
  *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
  * @version 2.0
  */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
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/**
 * Default base class for SAX2 event handlers.
This class is available as a convenience base class for SAX2 applications: it provides default implementations for all of the callbacks in the four core SAX2 handler classes:

Application writers can extend this class when they need to implement only part of an interface; parser writers can instantiate this class to provide default handlers when the application has not supplied its own.

This class replaces the deprecated SAX1 [class HandlerBase] class.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.EntityResolver
@see org.xml.sax.DTDHandler
@see org.xml.sax.ContentHandler
@see org.xml.sax.ErrorHandler

Found in path(s):
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/DefaultHandler.java
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/**
 * Encapsulate an XML parse error or warning.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.<br/>
 * </blockquote>
 */
This exception will include information for locating the error in the original XML document. Note that although the application will receive a SAXParseException as the argument to the handlers in the [@link org.xml.sax.ErrorHandler ErrorHandler] interface, the application is not actually required to throw the exception; instead, it can simply read the information in it and take a different action.</p>

Since this exception is a subclass of [@link org.xml.sax.SAXException SAXException], it inherits the ability to wrap another exception.</p>

@author SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.SAXException
@see org.xml.sax.Locator
@see org.xml.sax.ErrorHandler

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/**
 * Basic interface for resolving entities.
 *
 * <blockquote>
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 * </blockquote>
 *
 * <p>If a SAX application needs to implement customized handling for external entities, it must implement this interface and
* register an instance with the SAX driver using the
* {@link org.xml.sax.XMLReader#setEntityResolver setEntityResolver}
* method.</p>
*
* The XML reader will then allow the application to intercept any
* external entities (including the external DTD subset and external
* parameter entities, if any) before including them.</p>
*
* Many SAX applications will not need to implement this interface,
* but it will be especially useful for applications that build
* XML documents from databases or other specialised input sources,
* or for applications that use URI types other than URLs.</p>
*
* The following resolver would provide the application
* with a special character stream for the entity with the system
* identifier "http://www.myhost.com/today":</p>
*
* import org.xml.sax.EntityResolver;
* import org.xml.sax.InputSource;
*
* public class MyResolver implements EntityResolver {
*   public InputSource resolveEntity (String publicId, String systemId)
*   {
*     if (systemId.equals("http://www.myhost.com/today")) {
*       // return a special input source
*       MyReader reader = new MyReader();
*       return new InputSource(reader);
*     } else {
*       // use the default behaviour
*       return null;
*     }
*   }
* }
* </pre>
*
* The application can also use this interface to redirect system
* identifiers to local URIs or to look up replacements in a catalog
* (possibly by using the public identifier).</p>
*
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setEntityResolver
* @see org.xml.sax.InputSource
*/
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/*
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLElement.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParagraphElement.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBodyElement.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBRElement.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableRowElement.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLSelectElement.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLMenuElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLDivElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLModElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLDOMImplementation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLObjectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableCaptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLOptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParamElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParagraphElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHeadElement.java

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/**
 * Provide an optional convenience implementation of Locator.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 */
<p>This class is available mainly for application writers, who can use it to make a persistent snapshot of a locator at any point during a document parse:</p>

```java
Locator locator;
Locator startloc;

public void setLocator (Locator locator)
{
    // note the locator
    this.locator = locator;
}

public void startDocument ()
{
    // save the location of the start of the document
    // for future use.
    Locator startloc = new LocatorImpl(locator);
}
```

Normally, parser writers will not use this class, since it is more efficient to provide location information only when requested, rather than constantly updating a Locator object.</p>

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Locator Locator

خدمة الحالة: LocatorImpl.java
لم يتم العثور على ملف 许可证، ولكن تم الرصد لل giấyاء في مسح المصدر.

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/**
 * Interface for reading an XML document using callbacks.
 *
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 * Public Domain, and comes with NO WARRANTY.</p>

<p>Note: despite its name, this interface does not extend the standard Java Reader interface, because reading XML is a fundamentally different activity than reading character data.</p>

XMLReader is the interface that an XML parser's SAX2 driver must implement. This interface allows an application to set and query features and properties in the parser, to register event handlers for document processing, and to initiate a document parse.</p>

All SAX interfaces are assumed to be synchronous: the methods must not return until parsing is complete, and readers must wait for an event-handler callback to return before reporting the next event.</p>

This interface replaces the (now deprecated) SAX 1.0 org.xml.sax.Parser interface. The XMLReader interface contains two important enhancements over the old Parser interface:

- it adds a standard way to query and set features and properties; and
* <li>it adds Namespace support, which is required for many</li>
* higher-level XML standards.</li>
* </ol>
* <p>There are adapters available to convert a SAX1 Parser to</p>
* a SAX2 XMLReader and vice-versa.</p>
* 
* @since SAX 2.0
* @author David Megginson, <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.helpers.ParserAdapter
* @see org.xml.sax.helpers.XMLReaderAdapter
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLReader.java
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/**
* A single input source for an XML entity.
*
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* 
* This class allows a SAX application to encapsulate information
* about an input source in a single object, which may include
* a public identifier, a system identifier, a byte stream (possibly
* with a specified encoding), and/or a character stream.</p>
* 
* There are two places that the application will deliver this
* input source to the parser: as the argument to the Parser.parse
* method, or as the return value of the EntityResolver.resolveEntity
* method.</p>
* 
* The SAX parser will use the InputSource object to determine how
* to read XML input. If there is a character stream available, the
* parser will read that stream directly; if not, the parser will use
* a byte stream, if available; if neither a character stream nor a
* byte stream is available, the parser will attempt to open a URI
* connection to the resource identified by the system
* identifier.</p>
* 
* An InputSource object belongs to the application: the SAX parser
* shall never modify it in any way (it may modify a copy if
Exception class for an unsupported operation.

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An XMLReader will throw this exception when it recognizes a feature or property identifier, but cannot perform the requested operation (setting a state or value). Other SAX2 applications and extensions may use this class for similar purposes.

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* /
Adapt a SAX1 Parser as a SAX2 XMLReader.

This class wraps a SAX1 \{@link org.xml.sax.Parser Parser\} and makes it act as a SAX2 \{@link org.xml.sax.XMLReader XMLReader\}, with feature, property, and Namespace support. Note that it is not possible to report \{@link org.xml.sax.ContentHandler#skippedEntity skippedEntity\} events, since SAX1 does not make that information available.

This adapter does not test for duplicate Namespace-qualified attribute names.

@since SAX 2.0
@version 2.0

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// NO WARRANTY! This class is in the public domain.

**

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</em>

</blockquote>

This class does not test for duplicate Namespace-qualified attribute names.

@since Sax 2.0
@version 2.0

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\* @see org.xml.sax.helpers.XMLReaderAdapter
\* @see org.xml.sax.XMLReader
\* @see org.xml.sax.Parser
\*/

/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * \* <p>This class is in the Public Domain, and comes with NO
 * \* WARRANTY of any kind.</p>
 * \*
 * \* <p>This wrapper class is used only when Namespace support
 * \* is disabled -- it provides pretty much a direct mapping
 * \* from SAX1 to SAX2, except that names and types are
 * \* interned whenever requested.</p>
 * */

// NO WARRANTY! This class is in the public domain.
/**
 * Default implementation of the Attributes interface.
 *
 * \* <em>This module, both source code and documentation, is in the
 * \* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * \* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * \* for further information.
 * \*/

*<p>This class provides a default implementation of the SAX2
 *{@link org.xml.sax.Attributes Attributes} interface, with the
 *addition of manipulators so that the list can be modified or
 *reused.</p>*

*<p>There are two typical uses of this class:</p>*

*<ol>*
*<li>to take a persistent snapshot of an Attributes object
*in a {@link org.xml.sax.ContentHandler#startElement startElement} event; or</li>*
*<li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>*
*</ol>*

*<p>This class replaces the now-deprecated SAX1 { @link
*org.xml.sax.helpers.AttributeListImpl AttributeListImpl}
*class; in addition to supporting the updated Attributes
* interface rather than the deprecated \{[@link org.xml.sax.AttributeList
* AttributeList]\} interface, it also includes a much more efficient
* implementation using a single array rather than a set of Vectors.</p>
*
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/

Found in path(s):
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributesImpl.java
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// NO WARRANTY! This class is in the Public Domain.
/**
* Create a new instance of a class by name.
*
* <blockquote>
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* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>This class contains a static method for creating an instance of a
* class from an explicit class name. It tries to use the thread's context
* ClassLoader if possible and falls back to using
* Class.forName(String). It also takes into account JDK 1.2+'s
* AccessController mechanism for performing its actions. </p>
*
* <p>This code is designed to run on JDK version 1.1 and later and compile
* on versions of Java 2 and later.</p>
*
* @author Edwin Goei, David Brownell, Neil Graham
* @version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp $
*/

Found in path(s):
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jar/org/xml/sax/helpers/NewInstance.java
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/**
* Encapsulate a general SAX error or warning.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
This class can contain basic error or warning information from either the XML parser or the application: a parser writer or application writer can subclass it to provide additional functionality. SAX handlers may throw this exception or any exception subclassed from it.

If the application needs to pass through other types of exceptions, it must wrap those exceptions in a SAXException or an exception derived from a SAXException.

If the parser or application needs to include information about a specific location in an XML document, it should use the `SAXParseException` subclass.

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.SAXParseException

An XMLReader will throw this exception when it finds an unrecognized feature or property identifier; SAX applications and extensions may use this class for other, similar purposes.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.SAXNotSupportedError
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 */
/**
 * Create a new <code>DOMBuilder</code>. The newly constructed parser may
 * then be configured by means of its <code>setFeature</code> method,
 * and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode The <code>mode</code> argument is either
 * <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
 * <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 * <code>DOMBuilder</code> that is created will operate in synchronous
 * mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 * <code>DOMBuilder</code> that is created will operate in
 * asynchronous mode.
 * @param schemaType An absolute URI representing the type of the schema
 * language used during the load of a <code>Document</code> using the
 * newly created <code>DOMBuilder</code>. Note that no lexical
 * checking is done on the absolute URI. In order to create a
 * <code>DOMBuilder</code> for any kind of schema types (i.e. the
 * <code>DOMBuilder</code> will be free to use any schema found), use the value
 * <code>null</code>. For W3C XML Schema, applications must use the
 * value <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD
 * , applications must use the value
 * <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* @return The newly created <code>DOMBuilder</code> object. This
* <code>DOMBuilder</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument. By
* default, the newly created <code>DOMBuilder</code> does not contain
* a <code>DOMErrorHandler</code>, i.e. the value of the
* <code>errorHandler</code> is <code>null</code>. However,
* implementations may provide a default error handler at creation
* time. In that case, the initial value of the
* <code>errorHandler</code> attribute on the new created
* <code>DOMBuilder</code> contains a reference to the default error
* handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/ls/DOMImplementationLS.java
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/**
 * Basic interface for SAX (Simple API for XML) parsers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *<p>This was the main event supplier interface for SAX1; it has
* been replaced in SAX2 by \link \@link \org/xml/sax/XMLReader XMLReader\},
* which includes Namespace support and sophisticated configurability
* and extensibility.</p>
*<p>All SAX1 parsers must implement this basic interface: it allows
* applications to register handlers for different types of events
* and to initiate a parse from a URI, or a character stream.</p>
*<p>All SAX1 parsers must also implement a zero-argument constructor
* (though other constructors are also allowed).</p>
*<p>SAX1 parsers are reusable but not re-entrant: the application
* may reuse a parser object (possibly with a different input source)
* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
* @deprecated This interface has been replaced by the SAX2
*             { @link org.xml.sax.XMLReader XMLReader}
*             interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Parser.java
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/**
 * SAX2 extension handler for DTD declaration events.
 *
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 * </blockquote>
 *
 * This is an optional extension handler for SAX2 to provide
 * information about DTD declarations in an XML document. XML
 * readers are not required to support this handler, and this
 * handler is not included in the core SAX2 distribution.</p>
 *
 * Note that data-related DTD declarations (unparsed entities and
 * notations) are already reported through the { @link
 * org.xml.sax.DTDHandler DTDHandler} interface.</p>
 *
 * If you are using the declaration handler together with a lexical
 * handler, all of the events will occur between the
 * { @link org.xml.sax.ext.LexicalHandler#startDTD startDTD} and the
 * { @link org.xml.sax.ext.LexicalHandler#endDTD endDTD} events.</p>
 *
 * To set the DeclHandler for an XML reader, use the
 * { @link org.xml.sax.XMLReader#setProperty setProperty} method
 * with the propertyId "http://xml.org/sax/properties/declaration-handler".
 * If the reader does not support declaration events, it will throw a
 * { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException}
 * or a
* { @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException }  
* when you attempt to register the handler.</p>
*
* @since 1.0  
* @author David Megginson,  
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
* @version 1.0  
* @see org.xml.sax.XMLReader  
*/  

Found in path(s):  
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/DeclHandler.java  
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/**  
* Java-specific class for dynamically loading SAX parsers.  
*  
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* <em>This module, both source code and documentation, is in the  
* Public Domain, and comes with *strong>*NO WARRANTY</em>.</blockquote>  
* </blockquote>  
*  
* <p><strong>Note:</strong> This class is designed to work with the now-deprecated  
* SAX1 { @link org.xml.sax.Parser Parser} class.  SAX2 applications should use  
* { @link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory} instead.</p>  
*  
* <p>ParserFactory is not part of the platform-independent definition  
* of SAX; it is an additional convenience class designed  
* specifically for Java XML application writers.  SAX applications  
* can use the static methods in this class to allocate a SAX parser  
* dynamically at run-time based either on the value of the  
* `org.xml.sax.parser' system property or on a string containing the class  
* name.</p>  
*  
* <p>Note that the application still requires an XML parser that  
* implements SAX1.</p>  
*  
* @deprecated This class works with the deprecated  
* { @link org.xml.sax.Parser Parser}  
* interface.  
* @since SAX 1.0  
* @author David Megginson  
* @version 2.0r2pre3  
*/  

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/FilePathToURI.java
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/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
 *
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 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser
 * @see org.xml.sax.XMLReader
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/XMLReaderAdapter.java
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/**
 * Receive notification of the logical content of a document.
 *
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 *
 * This is the main interface that most SAX applications
 * implement: if the application needs to be informed of basic parsing
 * events, it implements this interface and registers an instance with
 * the SAX parser using the {@link org.xml.sax.XMLReader#setContentHandler
 * setContentHandler} method. The parser uses the instance to report
 * basic document-related events like the start and end of elements
 * and character data.</p>
 *
 * The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.</p>
 *
 * This interface is similar to the now-deprecated SAX 1.0
 * DocumentHandler interface, but it adds support for Namespaces
 * and for reporting skipped entities (in non-validating XML
 * processors).</p>
 *
 * Implementors should note that there is also a Java class
 * {@link java.net.ContentHandler ContentHandler} in the java.net
 * package; that means that it's probably a bad idea to do</p>
 *
 * import java.net.*;
 * import org.xml.sax.*;
 *
 * In fact, "import ...*" is usually a sign of sloppy programming
 * anyway, so the user should consider this a feature rather than a
 * bug.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *        <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ErrorHandler
Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ContentHandler.java
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/**
 * SAX2 extension handler for lexical events.
 *
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 * </blockquote>
 *
 * This is an optional extension handler for SAX2 to provide
 * lexical information about an XML document, such as comments
 * and CDATA section boundaries; XML readers are not required to
 * support this handler, and it is not part of the core SAX2
 * distribution.&lt;/p&gt;
 *
 * The events in the lexical handler apply to the entire document,
 * not just to the document element, and all lexical handler events
 * must appear between the content handler's startDocument and
 * endDocument events.&lt;/p&gt;
 *
 * To set the LexicalHandler for an XML reader, use the
 * {@link org.xml.sax.XMLReader#setProperty setProperty} method
 * with the propertyId "http://xml.org/sax/properties/lexical-handler".
 * If the reader does not support lexical events, it will throw a
 * SAXNotRecognizedException or a
 * SAXNotSupportedException when you attempt to register the handler.&lt;/p&gt;
 *
 * @since 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 1.0
 * @see org.xml.sax.XMLReader#setProperty
 * @see org.xml.sax.SAXNotRecognizedException
 * @see org.xml.sax.SAXNotSupportedException
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/LexicalHandler.java
1.2122 asm-tree 7.1

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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2.jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2.jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2.jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2.jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2.jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2.jar/org/objectweb/asm/tree/TypeAnnotationNode.java
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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2.jar/org/objectweb/asm/tree/AnnotationNode.java
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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2.jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2.jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2.jar/org/objectweb/asm/tree/FrameNode.java
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jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/Util.java
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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/InnerClassNode.java
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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/ModuleProvideNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/ClassNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/ModuleName.java

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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/package.html

1.2123 jakarta-ws-rs-api 2.1.6

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## Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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* Project: http://site.mockito.org
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/**
 * A contract for inspecting and potentially modifying request data values such
 * as URL query parameters or form field values before they are rendered by a
 * view or before a redirect.
 * 
 * <p>Implementations may use this contract for example as part of a solution
 * to provide data integrity, confidentiality, protection against cross-site
 * request forgery (CSRF), and others or for other tasks such as automatically
 * adding a hidden field to all forms and URLs.
 * */

/***/
<p>View technologies that support this contract can obtain an instance to delegate to via [@link RequestContext#getRequestDataValueProcessor()].</p>

* @author Rossen Stoyanchev
* @since 3.1
*/

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* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-jar/org/springframework/web/servlet/FlashMapManager.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-jar/org/springframework/web/servlet/support/SessionFlashMapManager.java
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* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-jar/org/springframework/web/servlet/view/XmlViewResolver.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-jar/org/springframework/web/servlet/ViewResolver.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-jar/org/springframework/web/servlet/tags/form/SelectedValueComparator.java
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* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources.jar/org/springframework/web/servlet/tags/form/FormSupportTag.java
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* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources.jar/org/springframework/web/servlet/resources/ResourceTransformerSupport.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources.jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources.jar/org/springframework/web/servlet/tags/AbstractHtmlElementBodyTag.java

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 */
/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * [ @link #locateSource detected] during response rendering. Users can either specify
 * a specific entry in the model via the [ @link #setSourceKey sourceKey] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See [ @link #getSourceTypes() here]
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [ @link #setOutputProperties output properties]
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */
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* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-
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jar/org/springframework/web/servlet/support/JspAwareRequestContext.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-
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* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-
jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java
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jar/org/springframework/web/servlet/view/xslt/XsltViewResolver.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-
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jar/org/springframework/web/servlet/FreeMarkerConfig.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-
jar/org/springframework/web/servlet/mvc/support/RedirectAttributesModelMap.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ExtendedServletRequestDataBinder.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-
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* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
* /opt/ws_local/PERMITS_SQL/1069262488_1594595119.88/0/spring-webmvc-5-1-9-release-sources-jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java

1.2132 commons-collections 4.4

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1.2133 spring-web-mvc 5.2.5.RELEASE

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Implementations may use this contract for example as part of a solution
to provide data integrity, confidentiality, protection against cross-site
request forgery (CSRF), and others or for other tasks such as automatically
adding a hidden field to all forms and URLs.

View technologies that support this contract can obtain an instance to
delegate to via \( @\text{link RequestContext\#getRequestDataValueProcessor()} \).

@since 3.1

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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
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/**
 ** XSLT-driven View that allows for response context to be rendered as the
 ** result of an XSLT transformation.
 **
 ** <p>The XSLT Source object is supplied as a parameter in the model and then
 ** { @link #locateSource detected} during response rendering. Users can either specify
 ** a specific entry in the model via the { @link #setSourceKey sourceKey} property or
 ** have Spring locate the Source object. This class also provides basic conversion
 ** of objects into Source implementations. See { @link #getSourceTypes() here} for more details.
 **
 ** <p>All model parameters are passed to the XSLT Transformer as parameters.
 ** In addition the user can configure { @link #setOutputProperties output properties}
 ** to be passed to the Transformer.
 **
 ** @author Rob Harrop
 ** @author Juergen Hoeller
 ** @since 2.0
 */

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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1.jar/org/springframework/web/tags/form/HiddenInputTag.java
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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java
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* /opt/cola/permits/1150250619_1627682339.48/0/wildfly-elytron-http-bearer-1-10-3-final-sources-
  jar/org/wildfly/security/http/bearer/BearerTokenAuthenticationMechanism.java
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  jar/org/wildfly/security/http/bearer/BearerMechanismFactory.java
* /opt/cola/permits/1150250619_1627682339.48/0/wildfly-elytron-http-bearer-1-10-3-final-sources-
  jar/org/wildfly/security/http/bearer/WildFlyElytronHttpBearerProvider.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/annotation/PropertySource.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/annotation/Configuration.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/annotation/ComponentScan.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/cache/interceptor/SimpleKey.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java
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*/opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/*spring-context-5-2-5-release-sources-1-
jar/org/springframework/jmx/export/annotation/ManagedNotification.java
*/opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/*spring-context-5-2-5-release-sources-1-
jar/org/springframework/jmx/export/annotation/ManagedMetric.java
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jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
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jar/org/springframework/jmx/export/annotation/ManagedOperation.java
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jar/org/springframework/jmx/export/annotation/ManagedResource.java
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jar/org/springframework/scripting/config/LangNamespaceHandler.java
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jar/org/springframework/context/annotation/Role.java
*/opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/*spring-context-5-2-5-release-sources-1-
jar/org/springframework/context/annotation/ComponentScans.java
*/opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/*spring-context-5-2-5-release-sources-1-
jar/org/springframework/context/annotation/ImportResource.java
*/opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/*spring-context-5-2-5-release-sources-1-
jar/org/springframework/context/annotation/ComponentScans.java
*/opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/*spring-context-5-2-5-release-sources-1-
jar/org/springframework/context/annotation/ComponentScans.java
*/opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/*spring-context-5-2-5-release-sources-1-
jar/org/springframework/context/event/EventListenerFactory.java
*/opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/*spring-context-5-2-5-release-sources-1-
jar/org/springframework/scheduling/support/CronTrigger.java
*/opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/*spring-context-5-2-5-release-sources-1-
jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java

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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java

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/**
 * @link FactoryBean} that obtains a WebSphere { @link javax.management.MBeanServer}
* reference through WebSphere's proprietary `AdminServiceFactory` API,
* available on WebSphere 5.1 and higher.

* <p>Exposes the `MBeanServer` for bean references.
*<p>This `FactoryBean` is a direct alternative to `MBeanServerFactoryBean`,
* which uses standard JMX 1.2 API to access the platform's `MBeanServer`.

* <p>See the javadocs for WebSphere's

* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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  jar/org/springframework/validation/MapBindingResult.java

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/**
 * Indicates that a component is only eligible for registration when all
 * @linkplain #value specified conditions] match.
 *
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see @link Condition for details).
 *
 * The {@code @Conditional} annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 */
* [@code @Component], including [@link Configuration @Configuration] classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype annotations</li>
* <li>as a method-level annotation on any [@link Bean @Bean] method</li>
* </ul>

* <p>If a [@code @Configuration] class is marked with [@code @Conditional],
* all of the [@code @Bean] methods, [@link Import @Import] annotations, and
* [@link ComponentScan @ComponentScan] annotations associated with that
* class will be subject to the conditions.</p>

* <p><strong>NOTE</strong>: Inheritance of [@code @Conditional] annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* [@code @Conditional] itself is not declared as
* [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* [@code @Conditional] must not be declared as [@code @Inherited].</p>

* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
jar/org/springframework/context/annotation/Conditional.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1.jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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  jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
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  jar/org/springframework/context/ApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
  jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
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  jar/org/springframework/context/annotation/PropertySources.java
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  jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/annotation/BeanMethod.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/annotation/DependsOn.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/event/DefaultEventListenerFactory.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/format/datetime/standard/DateTimeConverters.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/jmx/export/metadata/NotificationListenerRegistrar.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/scheduling/scheduled/ScheduledTasksFactoryPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/scheduling/scheduled/ScheduledTaskSupportFactoryPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/scheduling/scheduled/ScheduledTaskTargetSupportFactoryPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/scheduling/scheduled/ScheduledTaskTargetSupportFactoryPostProcessor.java
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jar/org/springframework/cache/interceptor/CacheOperationExpressionEvaluator.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
jar/org/springframework/cache/annotation/CachingConfigurationSelector.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
jar/org/springframework/scheduling/concurrent/ThreadPoolExecutorFactoryBean.java
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jar/org/springframework/instrument/classloading/ReflectiveLoadTimeWeaver.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
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  * /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/support/MessageSourceResourceBundle.java
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  jar/org/springframework/cache/support/SimpleValueWrapper.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
  jar/org/springframework/scripting/support/StaticScriptSource.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
  jar/org/springframework/jmx/ support/LoadTimeWeaverAwareProcessor.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
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  jar/jar/org/springframework/ejb/access/SimpleRemoteSlsbInvokerInterceptor.java
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  jar/jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
  jar/jar/org/springframework/context/MessageSourceResolvable.java
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1.2152 hsqldb-jdbc 2.5.0
1.2152.1 Available under license :
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  \q to Quit.
  \? lists Special Commands.
  :? lists Edit-Buffer/History commands.
  *? lists PL commands.
  /? displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with \ and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with : and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with * and end when you hit ENTER.
MACRO executions and definitions begin with / and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted ; (which executes the
statement), or a blank line (which moves the statement into the edit buffer
without executing).

After turning on variable expansion with command * (or any other PL
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Be aware when using regular expressions on commands, that the regex.s
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/Like.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/TransferCommon.java
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/index/IndexAVLMemory.java
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/server/ServerConnection.java
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 */
/**
 * Comprehensive information about the database as a whole.
This interface is implemented by driver vendors to let users know the capabilities
of a Database Management System (DBMS) in combination with
the driver based on JDBC technology
("JDBC driver") that is used with it. Different relational DBMSs often support
different features, implement features in different ways, and use different
data types. In addition, a driver may implement a feature on top of what the
DBMS offers. Information returned by methods in this interface applies
to the capabilities of a particular driver and a particular DBMS working
together. Note that as used in this documentation, the term "database" is
used generically to refer to both the driver and DBMS.

A user for this interface is commonly a tool that needs to discover how to
deal with the underlying DBMS. This is especially true for applications
that are intended to be used with more than one DBMS. For example, a tool might use the method
<code>getTypeInfo</code> to find out what data types can be used in a
<code>CREATE TABLE</code> statement. Or a user might call the method
<code>supportsCorrelatedSubqueries</code> to see if it is possible to use
a correlated subquery or <code>supportsBatchUpdates</code> to see if it is
possible to use batch updates.

Some <code>DatabaseMetaData</code> methods return lists of information
in the form of <code>ResultSet</code> objects.
Regular <code>ResultSet</code> methods, such as
<code>getString</code> and <code>getInt</code>, can be used
to retrieve the data from these <code>ResultSet</code> objects. If
a given form of metadata is not available, an empty <code>ResultSet</code>
will be returned. Additional columns beyond the columns defined to be
returned by the <code>ResultSet</code> object for a given method
can be defined by the JDBC driver vendor and must be accessed
by their <B>column label</B>.

Some <code>DatabaseMetaData</code> methods take arguments that are
String patterns. These arguments all have names such as fooPattern.
Within a pattern String, "%" means match any substring of 0 or more
characters, and "_" means match any one character. Only metadata
entries matching the search pattern are returned. If a search pattern
argument is set to <code>null</code>, that argument's criterion will
be dropped from the search.

A method that gets information about a feature that the driver does not
support will throw an <code>SQLException</code>.
In the case of methods that return a <code>ResultSet</code>
object, either a <code>ResultSet</code> object (which may be empty) is
returned or an <code>SQLException</code> is thrown.
* **<h3>HSQLDB-Specific Information:</h3>**

* **<h4>Metadata Table Production</h4>**

* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production implementation provided in the default build filters metadata based on each SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2 restriction that only users with the DBA role ("admin" users in older HSQLDB parlance) could expect trouble-free access to all metadata.<p>

* Also starting with HSQLDB 1.7.2, the metadata table production implementation classes are loaded dynamically, using a precedence policy to find and load the richest producer available at runtime. In the event that no better alternative is found, the default minimal (completely restricted) provider is selected. Under this scheme, it is possible for third party packagers to create custom distributions targeted at supporting full (design-time), custom-written (proprietary / micro environment), minimal (production-time) or completely-restricted (space-constrained | device embedded | real-time | hostile environment) metadata table production scenarios. To learn more about this option, interested parties can review the documentation and source code for the `<code>org.hsqldb.dbinfo.DatabaseInformation</code>` class.<p>

* Please also note that in addition to the metadata tables produced to directly support this class, starting with HSQLDB 1.7.2, the default build provides many additional tables covering all or most HSQLDB features, such as descriptions of the triggers and aliases defined in the database. <p>

* For instance, in the default build, a fairly comprehensive description of each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA column is included in the REMARKS column of the `<link #getTables(java.lang.String, java.lang.String, java.lang.String, java.lang.String[]) getTables(...) and `<link #getColumns(java.lang.String, java.lang.String, java.lang.String, java.lang.String[]) getColumns(...) results`, which derive from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS, respectively.<p>

* Since HSQLDB 2.0 the INFORMATION_SCHEMA views have been vastly expanded in compliance with the SQL:2011 Standard and report the properties of all database objects.<p>

* **<h4>Schema Metadata</h4>**

* The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and this fact is reflected in the all subsequent versions of this class.<p>

* **<h4>Catalog Metadata</h4>**

---

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* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
* is a major theme which is reflected in the provision of the majority of the
* standard-defined full-name INFORMATION_SCHEMA views. <p>
*
* However, just as CATALOG semantics and handling are still considered to be
* implementation defined by the most recent SQL standard (SQL:2008), so is the
* HSQLDB CATALOG concept still in the process of being defined and refined in
* HSQLDB 2.x and beyond.<p>
*
* Previous to HSQLDB 2.x, there were, at various points in time, experimental
* features provided to turn on pseudo catalog (and before that, pseudo-schema)
* reporting in the system tables, using the database properties
* 'hsqldb.catalogs' and 'hsqldb.schemas', respectively. <p>
*
* However, once the engine fully supported the SQL SCHEMA concept, the
* experimental 'hsqldb.schemas' database property was retired. <p>
*
* Similarly, starting with HSQLDB 2.x, the 'hsqldb.catalogs' database property
* has been retired and replaced with the convention that, from the perspective
* of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB
* database instance which consists of a single, default CATALOG
* named PUBLIC in which each SCHEMA instance of the database resides. The name of
* this catalog can be changed with the ALTER CATALOG &lt;name&gt; RENAME TO statement.
* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of
* database objects at the syntactic level, but does not yet support operations
* such as opening, manipulating or querying against multiple database
* catalogs within a single session, not even in a one-at-a-time fashion.
* 
* <h4>Index Metadata</h4>
*
* It must still be noted that as of the most recent release, HSQLDB continues
* to ignore the <code>approximate</code> argument of <link #getIndexInfo
* getIndexInfo() as no data is returned for CARDINALITY and PAGES columns.
* 
* <h4>Notes for developers extending metadata table production</h4>
*
* Note that in the absence of an ORDER BY clause, queries against the metadata
* tables that directly support this class are expected to return rows in JDBC
* contract order. The reason for this is that results typically come
* back much faster when no "ORDER BY" clause is used. <p>
*
* As such, when adding, extending or replacing a JDBC database metadata table
* production routine, developers need to be aware of this fact and either add the
* contract "ORDER BY" clause to the driving SQL or, when possible,
* preferably maintain rows in the contract order by correctly coding the
* primary index definition in the table producer class.
* 
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb/persist/CachedObjectBase.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb/persist/DataFileCacheSession.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/privileges/UserManager.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/util/SqlServerTransferHelper.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/lib/tar/TarMalformatException.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/TransactionManagerMVCC.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/navigator/RowSetNavigatorDataChangeMemory.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/types/BinaryType.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/test/TestSqlPersistent.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/lib/FileUtil.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/persist/TextCache.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/persist/TextFileReader8.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/util/DatabaseManager.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/types/IntervalSecondData.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/query/QuerySpecification.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/util/InformixTransferHelper.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/lib/DataOutputStream.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/PeriodDefinition.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/lib/RCData.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/navigator/RangeIterator.java
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/test/TestTextTable.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/SchemaManager.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/util/FontDialogSwing.java
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jar/org/hsqldb/scriptio/ScriptReaderBase.java
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jar/org/hsqldb/ExpressionPeriod.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/persist/DataSourceManagerSimple.java
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/util/TransferHelper.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/HsqlThreadFactory.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/test/TestLikePredicateOptimizations.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/db/tar/DbBackupMain.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/types/BlobType.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/rowio/RowOutputTextQuoted.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/java/JavaSystem.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/sample/Testdb.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/jdbc/JDBCArrayBasic.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/server/HsqlSocketRequestHandler.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/navigator/RowSetNavigatorClient.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/types/ClobData.java
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/error/Error.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/CachedObject.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/PersistentStoreCollectionDatabase.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/rights/GranteeManager.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/util/DataAccessPoint.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/test/TestUpdatableResults.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/ParserCommand.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/hsqldb-2-5-0-sources-jar/org/hsqldb/Scanner.java
jar/org/hsqldb/persist/RAFileHybrid.java
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/* These are commands which may contain nested commands and/or which
 * require the closing semicolon to send to the DB engine.
 * The BEGIN and DECLARE needed for PL/SQL probably do not need to
 * terminate the line, as we have it specified here, but I'd rather not be
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/*
 * provides cross-package access to the proprietary (i.e. non-JDBC) HSQLDB session interface. <P>
 *
 * @return the underlying sessionProxy for this connection
 */

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1.2153 libxdamage 1.1.4 4.1.el7

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1.2156 google-auth-library-credentials 0.13.0

1.2157 logstash-logback-encoder 6.4
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* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/encoder/CompositeJsonEncoder.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/composite/accessevent/HeaderFilter.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/decorate/cbor/CborJsonFactoryDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/composite/FieldNamesAware.java
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* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/FeatureJsonGeneratorDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/pattern/AbstractJsonPatternParser.java
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* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LoggingEventJsonProviders.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/marker/MessageFormatCache.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/LogstashFormatter.java
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* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/StackTraceJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/argument/DeferredStructuredArgument.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessesevent/RemoteHostJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessesevent/ResponseHeadersJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/stacktrace/StackTraceElementFilter.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/LogstashSocketAppender.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/destination/DelegateDestinationConnectionStrategy.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/destination/RandomDestinationConnectionStrategy.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LoggingEventPatternJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LoggingEventCompositeJsonFormatter.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/AbstractPatternJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/encoder/LogstashEncoder.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/RemoteUserJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LoggingEventNestedJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appenders/LogstashAccessTcpSocketAppender.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/mask/FieldNameBasedFieldMasker.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LoggerNameJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/pattern/ValueGetter.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appenders/NotConnectedException.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appenders/destination/RoundRobinDestinationConnectionStrategy.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/CharacterEscapesJsonFactoryDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/WaitStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/status/LevelFilteringStatusListener.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/pattern/NodeWriter.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appenders/listener/AppenderListener.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/JsonFactoryDecorator.java
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* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/argument/StructuredArguments.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/ProtocolJsonProvider.java
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* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/ThreadNameJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/destination/DestinationConnectionStrategy.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/FormattedTimestampJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/FormattedTimestampJsonProvider.java
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* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/ShutdownInProgressException.java
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* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/AbstractFieldJsonProvider.java
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* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/listener/LoggingEventAppenderListenerImpl.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/CompositeJsonGeneratorDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/yaml/YamlFeatureJsonGeneratorDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/JsonProviders.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/AbstractLogstashUdpSocketAppender.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/AbstractFieldJsonProvider.java
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* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/NullJsonGeneratorDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/listener/FailureSummaryAppenderListener.java
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1.2158 httpclient 4.5.5

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/agents/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/launch/AnnotationProcessor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/launch/AnnotationProcessor.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/agents/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/agents/package-info.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/agents/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/agents/package-info.java

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  zip/lombok/javac/java6/CommentCollectingScanner.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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  zip/lombok/core/debug/FileLog.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/delombok/DelombokResult.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/NonNull.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/EclipseAST.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/AnnotationValues.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/LombokNode.java
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zip/lombok/eclipse/DeferUntilPostDiet.java
*/ /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/javac/handlers/JavacResolver.java
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zip/lombok/javac/Javac9BasedLombokOptions.java
*/ /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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  zip/lombok/eclipse/agent/PatchExtensionMethod.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/handlers/HandleAccessors.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/debug/DebugSnapshot.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/debug/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/HandleValue.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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zip/lombok/eclipse/handlers/HandleHelper.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/Generated.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/singualrs/EclipseGuavaMapSingularizer.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/handlers/singualrs/JavacJavaUtilSetSingularizer.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/RequiredArgsConstructor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/Delegate.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/AllArgsConstructor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/experimental/var.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/extern/apachecommons/CommonsLog.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/extern/log4j/Log4j.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/extern/log4j/Log4j.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/experimental/Delegate.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/apt/Java9BaseFileObjectWrapper.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/extern/java/Log.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/handlers/HandleConstructor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/val.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/extern/apachecommons/CommonsLog.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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zip/lombok/javac/handlers/HandleLog.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/javac/bytecode/AsmUtil.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/javac/bytecode/SneakyThrowsRemover.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/javac/handlers/HandleDelegate.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/RunTestsViaEcj.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/CommentInfo.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/runtimeDependencies/CreateLombokRuntimeApp.java

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  zip/lombok/eclipse/agent/PatchValEclipsePortal.java
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  zip/lombok/javac/handlers/singulars/JavaJavaUtilMapSingularizer.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/handlers/singulars/JavaJavaUtilListSetSingularizer.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/singulars/EclipseJavaUtilMapSingularizer.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/EclipseSingularsRecipes.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/EclipseGuavaSingularizer.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/SingularsRecipes.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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  zip/lombok/eclipse/handlers/HandleNonNull.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java6/CommentCollectingParser.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/configuration/ConfigurationDataType.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java7/CommentCollectingParserFactory.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/LombokConfiguration.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java8/CommentCollectingParser.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/configuration/ConfigurationKey.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java7/CommentCollectingParserFactory.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/bytecode/PostCompilerApp.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/OsUtils.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/eclipse/EclipseLocationProvider.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/eclipse/ProductLocationProvider.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/iot/GenericUtil.java
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  zip/lombok/javac/TreeMirrorMaker.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/launch/PatchFixesHider.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/TransformEclipseAST.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/Getter.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/SneakyThrows.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/package-info.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/handlers/HandleSetter.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/JavacAST.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/InstallerGUI.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/Setter.java
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  zip/lombok/DirectoryRunner.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/transform/TestWithDelombok.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/transform/TestSourceFiles.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/TypeLibrary.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/delombok/ant/DelombokTask.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/delombok/ant/DelombokTaskImpl.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/agent/EclipsePatcher.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/ToString.java
*/
zip/lombok/core/handlers/InclusionExclusionUtils.java
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/**
 * <p>The identifier of a client registered within the OAuth2 Authorization Server that will be used to authenticate this server
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 * <p>Please note that the client will be usually a confidential client with both an identifier and secret configured in order to
* authenticate against the token introspection endpoint. In this case, the endpoint must support HTTP BASIC authentication using
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*
* @param clientId the identifier of a client within the OAUth2 Authorization Server
* @return this instance
*/

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* /opt/cola/permits/1150251127_1627682083.12/0/wildfly-elytron-realm-token-1-10-3-final-sources-jar/org/wildfly/security/auth/realm/token/validator/OAuth2IntrospectValidator.java
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* /opt/cola/permits/1150251127_1627682083.12/0/wildfly-elytron-realm-token-1-10-3-final-sources-jar/org/wildfly/security/auth/realm/token/validator/JwtValidator.java
* /opt/cola/permits/1150251127_1627682083.12/0/wildfly-elytron-realm-token-1-10-3-final-sources-jar/org/wildfly/security/auth/realm/token/validator/package-info.java
* /opt/cola/permits/1150251127_1627682083.12/0/wildfly-elytron-realm-token-1-10-3-final-sources-jar/org/wildfly/security/auth/realm/token/package-info.java

1.2161 swagger 1.5.20

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SourceFileLicense.javaRuntimeVisibleAnnotationsLjava/lang/annotation/Target;value"Ljava/lang/annotation/ElementType;ANNOTATION_TYPE
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 * found on the classpath. To refer to a parameter within the scripting
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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.
*/

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* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/cfg/defs/NullDef.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/cfg/defs/pl/package-info.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForLocalTime.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
jar/org/hibernate/validator/internal/engine/constraintvalidation/ClassBasedValidatorDescriptor.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
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* /opt/cola/permits/110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/TokenCollector.java
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* /opt/cola/permits/110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.java
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* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/META-INF/validation-mapping-2.0.xsd
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/META-INF/validation-mapping-1.0.xsd
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/META-INF/validation-mapping-1.1.xsd
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* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/META-INF/validation-configuration-2.0.xsd
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/META-INF/validation-configuration-1.1.xsd

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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/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.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

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1.2165 plexus-compiler-javac 2.2

1.2166 disruptor 3.4.2

1.2167 spring-jcl 5.2.2.RELEASE

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* /opt/cola/permits/1141988997_1615255814.58/0/spring-jcl-5-2-2-release-sources-2-jar/org/apache/commons/logging/LogFactoryService.java
* /opt/cola/permits/1141988997_1615255814.58/0/spring-jcl-5-2-2-release-sources-2-jar/org/apache/commons/logging/LogAdapter.java

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1.2168 spring-aop 5.2.0.RELEASE

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* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2-
  jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2-
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* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2-
  jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2-
  jar/org/springframework/aop/target/ThreadLocalTargetSource.java
* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2-
  jar/org/aopalliance/aop/Advice.java
* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2-
  jar/org/aopalliance/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
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  jar/org/aopalliance/intercept/MethodInvocation.java
* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2-
  jar/org/springframework/aop/framework/ProxyFactory.java
* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2-
  jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
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jar/org/springframework/aop/ProxyMethodInvocation.java
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* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2-jar/org/springframework/aop/RawTargetAccess.java

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* /opt/cola/permits/1150250264_1627682138.18/0/spring-aop-5-2-0-release-sources-2.jar/org/springframework/aop/framework/aop/framework/adapter/MethodBeforeAdviceAdapter.java
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1.2171 aggs-matrix-stats-client 7.4.0

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1.2187 classmate 1.3.4
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Other developers who have contributed code are:

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1.2189 hibernate-envers 5.4.9.Final

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1.2194 perl-text-parsewords 3.29 4.el7

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From: "Alexandr Ciornii via RT" <bug-Text-ParseWords@rt.cpan.org>
Reply-To: bug-Text-ParseWords@rt.cpan.org
In-Reply-To: <rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>
References: <RT-Ticket-90483@rt.cpan.org>
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On Mon Nov 18 10:37:28 2013, mmaslano@redhat.com wrote:
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text in .pm file would be enough.

Will do in next version.

> I found Perl license in Makefile.PL.
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yes

--
Alexandr Ciornii, http://chorny.net

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* The classes in this package make JDBC easier to use and
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* <ul>
* <li>Simplify error handling, avoiding the need for try/catch/finally
*    blocks in application code.
* <li>Present exceptions to application code in a generic hierarchy of
*    unchecked exceptions, enabling applications to catch data access
*    exceptions without being dependent on JDBC, and to ignore fatal
*    exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
*    to target different RDBMSes without introducing proprietary
*    dependencies into application code.
* </ul>
*<p>*This package and related packages are discussed in Chapter 9 of
* by Rod Johnson (Wrox, 2002).
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jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-
jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
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   */
/**
   * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
   * Will not need to do anything if using PreparedStatement's standard methods,
   * but might be necessary to free database resources if using proprietary means.
   * <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
   * been executed or the affected O/R mapping sessions have been flushed.
   * Otherwise, the database resources for the temporary BLOBs might stay allocated.
   */

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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
* 
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con a JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @return a Map of input parameters, keyed by name (never { @code null})
* @throws SQLException if an SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
*/

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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/SQLWarningException.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1.jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
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* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/datasource/lookup/DatabaseMetaDataCallback.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/ws_local/PERMITS_SQL/1068412495_1594388232.98/0/spring-jdbc-5-2-5-release-sources-1-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java

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/**
 * Strategy interface for translating between [SQLException SQLExceptions]
 * and Spring's data access strategy-agnostic [DataAccessException]
 * hierarchy.
 *
 * Implementations can be generic (for example, using
* { @link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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1.2212 maven-compiler-plugin 3.8.1

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

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

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

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

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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/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.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

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplg.c

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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Tests included here are based on build output generated by the six-speed benchmark suite.

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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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1.2229 jboss-dmr 1.3.0.Final

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 */
/**
 * A { @link WebApplicationContext} that can be used to bootstrap itself from a contained
 * { @link ServletWebServerFactory} bean.
 *<p>
 * This context will create, initialize and run an { @link WebServer} by searching for a
 * single { @link ServletWebServerFactory} bean within the { @link ApplicationContext}
 * itself. The { @link ServletWebServerFactory} is free to use standard Spring concepts
 * (such as dependency injection, lifecycle callbacks and property placeholder variables).
 *<p>
 * In addition, any { @link Servlet} or { @link Filter} beans defined in the context will be
 * automatically registered with the web server. In the case of a single Servlet bean, the
 * '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
 * name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
 * always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
 *<p>
 * For more advanced configuration, the context can instead define beans that implement
 * the { @link ServletContextInitializer} interface (most often
 * { @link ServletRegistrationBean}s and/or { @link FilterRegistrationBean}s). To prevent

double registration, the use of \{@link ServletContextInitializer\} beans will disable
automatic Servlet and Filter bean registration.

Although this context can be used directly, most developers should consider using the
\{@link AnnotationConfigServletWebServerApplicationContext\} or
\{@link XmlServletWebServerApplicationContext\} variants.

@see AnnotationConfigServletWebServerApplicationContext
@see XmlServletWebServerApplicationContext
@see ServletWebServerFactory

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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.
 */

<!--<h3>Sub-types</h3>

<p>
[@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
subtypes:
</p>

<ul>
<li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
<li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
</ul>

<p></p>

<p>Alternatively, the following adapter classes are provided for your convenience:
</p>

<ul>
<li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
<li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
<li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
</ul>

<p></p>

<p>For more information, please refer to the documentation of each subtype.
</p>

<h3>The context object</h3>

<p>A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext]
object. A [@link ChannelHandler] is supposed to interact with the
[@link ChannelPipeline] it belongs to via a context object. Using the
context object, the [@link ChannelHandler] can pass events upstream or
</p>
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.

* <h3>State management</h3>

* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:

* <pre>
* public interface Message {
*   // your methods here
* }
*
* public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {
*   private boolean loggedIn;
*   
*   {@code @Override}
*   public void channelRead0(HandlerContext ctx, Message message) {
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) message);
*       loggedIn = true;
*     } else (message instanceof GetDataMessage) {
*       if (loggedIn) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*       } else {
*         fail();
*       }
*     }
*   }
* ...  
*  }
* </pre>

* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:

* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel) }.
* public class DataServerInitializer extends @link ChannelInitializer&lt;Channel&gt; {
*   {@code @Override}
*   public void initChannel(Channel channel) {
*     channel.pipeline().addLast("handler", new DataServerHandler());
*   }
* }
* </pre>
* <h4>Using [@link AttributeKey]s</h4>
* 
* Although it’s recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [@link AttributeKey]s which is provided by
* [@link ChannelHandlerContext]:
* 
* public interface Message {
*     // your methods here
* }
* 
* [@code @Sharable]
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]&lt;Message&gt; {
*     private final [@link AttributeKey]&lt;@link Boolean&gt; auth =
*         [@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")];
* 
*     [code @Override]
*     public void channelRead([@link ChannelHandlerContext] ctx, Message message) {
*         Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             attr.set(true);
*         } else (message instanceof GetDataMessage) {
*             if (Boolean.TRUE.equals(attr.get())) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*         ...
*     }
* 
*     [code @Override]
*     public void initChannel([@link Channel] channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* 
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the
* same handler instance to different pipelines:
* 
* public class DataServerInitializer extends [@link ChannelInitializer]&lt;[@link Channel]&gt; { [code @Override]
*     public void initChannel([@link Channel] channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
*
* <h4>The `@Sharable` annotation</h4>
*  
* In the example above which used an `@link AttributeKey`,
* you might have noticed the `@code @Sharable` annotation.
*  
* If a `@link ChannelHandler` is annotated with the `@code @Sharable`
* annotation, it means you can create an instance of the handler just once and
* add it to one or more `@link ChannelPipeline`s multiple times without
* a race condition.
*  
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
*  
* This annotation is provided for documentation purpose, just like
* `@a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>`.
*  
* Additional resources worth reading
*  
* Please refer to the `@link ChannelHandler`, and
* `@link ChannelPipeline` to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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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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(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
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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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Library, but is designed to work with the Library by being compiled or
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Appendix: How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the
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To apply these terms, attach the following notices to the library. It is
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convey the exclusion of warranty; and each file should have at least the
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<one line to give the library's name and a brief idea of what it does.>
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.2264 sqlite 3.32.3-1.el7_9.0atomix1
1.2264.1 Available under license:

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    /*
    ** CAPI3REF: Configuration Options
    ** KEYWORDS: {configuration option}
    **
    ** These constants are the available integer configuration options that
    ** can be passed as the first argument to the [sqlite3_config()] interface.
    **
    ** New configuration options may be added in future releases of SQLite.
    ** Existing configuration options might be discontinued. Applications
    ** should check the return code from [sqlite3_config()] to make sure that
    ** the call worked. The [sqlite3_config()] interface will return a
    ** non-zero [error code] if a discontinued or unsupported configuration option
    ** is invoked.
    **
    ** <dl>
    ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
    ** <dd>There are no arguments to this option. ^This option sets the
    ** [threading mode] to Single-thread. In other words, it disables
    ** all mutexing and puts SQLite into a mode where it can only be used
    ** by a single thread. ^If SQLite is compiled with
    ** the [SQLITE_THREADSAFE [SQLITE_THREADSAFE=0]] compile-time option then


** it is not possible to change the [threading mode] from its default ** value of Single-thread and so [sqlite3_config()] will return ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETREAD ** configuration option. </dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the ** [threading mode] to Multi-thread. In other words, it disables ** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to ** [database connections] and [prepared statements]. But other mutexes ** are enabled so that SQLite will be safe to use in a multi-threaded ** environment as long as no two threads attempt to use the same ** [database connection] at the same time. ^If SQLite is compiled with ** the [SQLITE_THREADSAFE | SQLite_THREADSAFE=0] compile-time option then ** it is not possible to set the Multi-thread [threading mode] and ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the ** SQLite_CONFIG.MULTITHREAD configuration option. </dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the ** [threading mode] to Serialized. In other words, this option enables ** all mutexes including the recursive ** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with ** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access ** to [database connections] and [prepared statements] so that the ** application is free to use the same [database connection] or the ** same [prepared statement] in different threads at the same time. ** ^If SQLite is compiled with ** the [SQLITE_THREADSAFE | SQLite_THREADSAFE=0] compile-time option then ** it is not possible to set the Serialized [threading mode] and ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the ** SQLite_CONFIG_SERIALIZED configuration option. </dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is ** a pointer to an instance of the [sqlite3_mem_methods] structure. ** The argument specifies ** alternative low-level memory allocation routines to be used in place of ** the memory allocation routines built into SQLite.) ^SQLite makes ** its own private copy of the content of the [sqlite3_mem_methods] structure ** before the [sqlite3_config()] call returns. </dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which ** is a pointer to an instance of the [sqlite3_mem_methods] structure. ** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.**
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulates memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
** <li> [sqlite3_hard_heap_limit64()]
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status64()]
** </ul>^ Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
can be determined using `[SQLITE_CONFIG_PCACHE_HDRSZ]`.

*It is harmless, apart from the wasted memory,*

*for the sz parameter to be larger than necessary. The pMem

*argument must be either a NULL pointer or a pointer to an 8-byte

*aligned block of memory of at least sz*N bytes, otherwise

*subsequent behavior is undefined.

*^When pMem is not NULL, SQLite will strive to use the memory provided

*to satisfy page cache needs, falling back to [sqlite3_malloc()] if

*a page cache line is larger than sz bytes or if all of the pMem buffer

*is exhausted.

*If pMem is NULL and N is non-zero, then each database connection

*does an initial bulk allocation for page cache memory

*from [sqlite3_malloc()] sufficient for N cache lines if N is positive or

*-1024*N bytes if N is negative. *^If additional

*page cache memory is needed beyond what is provided by the initial

*allocation, then SQLite goes to [sqlite3_malloc()] separately for each

*additional cache line. </dd>

**

** [[SQLITE_CONFIG_HEAP]]<dt>SQLITE_CONFIG_HEAP</dt>

**

*^The SQLITE_CONFIG_HEAP option specifies a static memory buffer

*that SQLite will use for all of its dynamic memory allocation needs

* beyond those provided for by [SQLITE_CONFIG_PAGECACHE].

*^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled

*with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns

*[SQLITE_ERROR] if invoked otherwise.

*^There are three arguments to SQLITE_CONFIG_HEAP:

*An 8-byte aligned pointer to the memory,

*the number of bytes in the memory buffer, and the minimum allocation size.

*If the first pointer (the memory pointer) is NULL, then SQLite reverts

*to using its default memory allocator (the system malloc() implementation),

*undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. *^If the

*memory pointer is not NULL then the alternative memory

*allocator is engaged to handle all of SQLites memory allocation needs.

*The first pointer (the memory pointer) must be aligned to an 8-byte

*boundary or subsequent behavior of SQLite will be undefined.

*The minimum allocation size is capped at 2**12. Reasonable values

*for the minimum allocation size are 2**5 through 2**8.</dd>

**

** [[SQLITE_CONFIG_MUTEX]]<dt>SQLITE_CONFIG_MUTEX</dt>

**

*^The SQLITE_CONFIG_MUTEX option takes a single argument which is a

*pointer to an instance of the [sqlite3_mutex_methods] structure.

*The argument specifies alternative low-level mutex routines to be used

*in place the mutex routines built into SQLite.)*^SQLite makes a copy of

*the content of the [sqlite3_mutex_methods] structure before the call to

*[sqlite3_config()] returns. *^If SQLite is compiled with

*the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then

*the entire muting subsystem is omitted from the build and hence calls to

*[sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines. )^ 
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^  </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^ 
** SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^  </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** ^(The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()]) to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^(The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a result code or an
** extended result code. The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.) If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. (By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>(The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dd>These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
**</dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection ** passed as the second argument has just been opened. The third argument ** points to a buffer containing the name of the main database file. If the ** fourth parameter is 1, then the SQL statement that the third parameter ** points to has just been executed. Or, if the fourth parameter is 2, then ** the connection being passed as the second parameter is being closed. The ** third parameter is passed NULL In this case. An example of using this ** configuration option can be seen in the "test_sqllog.c" source file in ** the canonical SQLite source tree.</dd>

** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values ** that are the default mmap size limit (the default setting for ** [PRAGMA mmap_size]) and the maximum allowed mmap size limit. ** ^The default setting can be overridden by each database connection using ** either the [PRAGMA mmap_size] command, or by using the ** [SQLITE_FCNTL_MMAP_SIZE] file control. ^[The maximum allowed mmap size ** will be silently truncated if necessary so that it does not exceed the ** compile-time maximum mmap size set by the ** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^ ** ^If either argument to this option is negative, then that argument is ** changed to its compile-time default.

** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is ** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro ** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value ** that specifies the maximum size of the created heap.

** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which ** is a pointer to an integer and writes into that integer the number of extra ** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE]. ** The amount of extra space required can change depending on the compiler, ** target platform, and SQLite version.

** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which ** is an unsigned integer and sets the " Minimum PMA Size" for the multithreaded ** sorter to that integer. The default minimum PMA Size is set by the ** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched ** to help with sort operations when multithreaded sorting ** is enabled (using the [PRAGMA threads] command) and the amount of content ** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>^The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>^The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control][file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
**</dl>
*/
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**
This file contains code for a set of "printf"-like routines. These routines format strings much like the printf() from the standard C library, though the implementation here has enhancements to support SQLite.

2004 May 22

The author disclaims copyright to this source code. In place of a legal notice, here is a blessing:

May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

This file contains the VFS implementation for unix-like operating systems include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.

There are actually several different VFS implementations in this file. The differences are in the way that file locking is done. The default implementation uses Posix Advisory Locks. Alternative implementations use flock(), dot-files, various proprietary locking schemas, or simply skip locking all together.

This source file is organized into divisions where the logic for various subfunctions is contained within the appropriate division. PLEASE KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed in the correct division and should be clearly labeled.

The layout of divisions is as follows:

* General-purpose declarations and utility functions.
* Unique file ID logic used by VxWorks.
* Various locking primitive implementations (all except proxy locking):
  * for Posix Advisory Locks
  * for no-op locks
  * for dot-file locks
  * for flock() locking
  * for named semaphore locks (VxWorks only)
  * for AFP filesystem locks (MacOSX only)
* sqlite3_file methods not associated with locking.
* Definitions of sqlite3_io_methods objects for all locking methods plus "finder" functions for each locking method.
* sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
** plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found in path(s):
* /opt/cola/permits/1154067795_1625594828.48/0/sqlite-amalgamation-3320300.zip/sqlite-amalgamation-
  3320300/sqlite3.c
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutual exclusion, and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option. </dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutual exclusion on [database connection] and [prepared statement] objects.
The application is responsible for serializing access to database connections and prepared statements. But other mutexes are enabled so that SQLite will be safe to use in a multi-threaded environment as long as no two threads attempt to use the same database connection at the same time. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Multi-thread [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the **SQLITE_CONFIG_MULTITHREAD** configuration option. </dd>

** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>**
<dt>SQLITE_CONFIG_SERIALIZED</dt>**
<dd>There are no arguments to this option. ^This option sets the [threading mode] to Serialized. In other words, this option enables all mutexes including the recursive mutexes on [database connection] and [prepared statement] objects.
In this mode (which is the default when SQLite is compiled with [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access to [database connections] and [prepared statements] so that the application is free to use the same [database connection] or the same [prepared statement] in different threads at the same time.
^If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Serialized [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the **SQLITE_CONFIG_SERIALIZED** configuration option. </dd>

** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>**
<dt>SQLITE_CONFIG_MALLOC</dt>**
<dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. The argument specifies alternative low-level memory allocation routines to be used in place of the memory allocation routines built into SQLite.)^ ^SQLite makes its own private copy of the content of the [sqlite3_mem_methods] structure before the [sqlite3_config()] call returns. </dd>

** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>**
<dt>SQLITE_CONFIG_GETMALLOC</dt>**
<dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods] structure is filled with the currently defined memory allocation routines.)^ ^This option can be used to overload the default memory allocation routines with a wrapper that simulates memory allocation failure or tracks memory usage, for example. </dd>

** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>**
<dt>SQLITE_CONFIG_SMALL_MALLOC</dt>**
<dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of type int, interpreted as a boolean, which if true provides a hint to SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations, but some application might prefer to run slower in exchange for guarantees about memory fragmentation that are possible if large allocations are avoided. This hint is normally off. */

** 

** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt> 
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int, interpreted as a boolean, which enables or disables the collection of memory allocation statistics. ^(When memory allocation statistics are disabled, the following SQLite interfaces become non-operational:
** <li> [sqlite3_hard_heap_limit64()]
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status64()]
** </ul>^ 
** ^Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default. */

** 

** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt> 
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used. */

** 

** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt> 
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool that SQLite can use for the database page cache with the default page cache implementation.
** This configuration option is a no-op if an application-defined page cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2]. ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to 8-byte aligned memory (pMem), the size of each page cache line (sz), and the number of cache lines (N).
** The sz argument should be the size of the largest database page (a power of two between 512 and 65536) plus some extra bytes for each page header. ^The number of extra bytes needed by the page header can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ]. ^It is harmless, apart from the wasted memory, for the sz parameter to be larger than necessary. The pMem argument must be either a NULL pointer or a pointer to an 8-byte aligned block of memory of at least sz*N bytes, otherwise subsequent behavior is undefined. ^When pMem is not NULL, SQLite will strive to use the memory provided to satisfy page cache needs, falling back to [sqlite3_malloc()] if a page cache line is larger than sz bytes or if all of the pMem buffer is used.
** is exhausted.
** If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_mallocc] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative. ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_mallocc] separately for each
** additional cache line. </dd>

** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^ 
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^  </dd>

**

** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^  ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>

**

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^  </dd>

**

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>

**

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^

**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.

**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>

**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char *, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
** [SQLITE_CONFIG_MMAP_SIZE]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>*SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [SQLITE_CONFIG_WIN32_HEAPSIZE]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>*The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [SQLITE_CONFIG_PCACHE_HDRSZ]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>*The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [SQLITE_CONFIG_PMASZ]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>*The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [SQLITE_CONFIG_STMTJRNL_SPILL]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>*The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [SQLITE_CONFIG_SORTERREF_SIZE]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
**  The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
**  of type (int) - the new value of the sorter-reference size threshold.
**  Usually, when SQLite uses an external sort to order records according
**  to an ORDER BY clause, all fields required by the caller are present in the
**  sorted records. However, if SQLite determines based on the declared type
**  of a table column that its values are likely to be very large - larger
**  than the configured sorter-reference size threshold - then a reference
**  is stored in each sorted record and the required column values loaded
**  from the database as records are returned in sorted order. The default
**  value for this option is to never use this optimization. Specifying a
**  negative value for this option restores the default behaviour.
**  This option is only available if SQLite is compiled with the
**  [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [SQLITE_CONFIG_MEMDB_MAXSIZE]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
**  The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
**  [sqlite3_int64] parameter which is the default maximum size for an in-memory
**  database created using [sqlite3_deserialize()]. This default maximum
**  size can be adjusted up or down for individual databases using the
**  [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
**  configuration setting is never used, then the default maximum is determined
**  by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
**  compile-time option is not set, then the default maximum is 1073741824.
**  */

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* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
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* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ssl/Java8SslUtils.java
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jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/OpenSslJavaX509Certificate.java
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* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
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* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDecimal.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/datatype/XMLGregorianCalendarImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/QNameDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSComplexTypeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/AnyURIDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAbstractTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/ObjectFactory.java
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*/
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

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  jar/org/apache/xerces/impl/io/UTF8Reader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xerces/xinclude/XInclude11TextReader.java
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jar/org/apache/xerces/xinclude/XIncludeHandler.java
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jar/org/apache/xerces/xinclude/XincludeNamespaceSupport.java
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jar/org/apache/xerces/xinclude/XIncludeTextReader.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/DOMErrorImpl.java
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  jar/org/apache/xerces/util/SymbolHash.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/xs/IDREFDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xni/parser/XMLDTDContentModelFilter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/ValidationContext.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xpath/XPathException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/parsers/IntegratedParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/IDDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMStringListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationSourceImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSGrammarBucket.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentScanner.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLParseException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentFragmentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/Identity/UniqueOrKey.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/Identity/KeyRef.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DatatypeException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/Identity/Type.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/Identity/NamedSimpleType.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/Identity/Type.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DTD DVFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeValueException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/UnionDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DocumentFragmentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XHTMLSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLErrorReporter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11Char.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLScanner.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDProcessor.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMap4Types.java
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  jar/org/apache/xerces/dom/DeferredDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/xs/AnyAtomicDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/ExternalSubsetResolver.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/XMLEntityDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/util/ByteListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/parsers/XML11Configurable.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/traversers/XSAnnotationInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLSchemaDecl.xml
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSGroupDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDTDScannerImpl.java
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/**
* DOM Level 3 LS CR - Experimental.
* Create a new `<code>LSParser</code>`. The newly constructed parser may then be configured by means of its `<code>DOMConfiguration</code>` object, and used to parse documents by means of its `<code>parse</code>` method.

* @param mode  The `<code>mode</code>` argument is either `<code>MODE_SYNCHRONOUS</code>` or `<code>MODEASYNCHRONOUS</code>`, if `<code>mode</code>` is `<code>MODE_SYNCHRONOUS</code>` then the `<code>LSParser</code>` that is created will operate in synchronous mode, if it's `<code>MODEASYNCHRONOUS</code>` then the `<code>LSParser</code>` that is created will operate in asynchronous mode.

* @param schemaType  An absolute URI representing the type of the schema language used during the load of a `<code>Document</code>` using the newly created `<code>LSParser</code>`. Note that no lexical checking is done on the absolute URI. In order to create a `<code>LSParser</code>` for any kind of schema types (i.e. the `<code>LSParser</code>` will be free to use any schema found), use the value `<code>null</code>`.

* <p><b>Note:</b> For W3C XML Schema [a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/']XML Schema Part 1[/a]

  , applications must use the value `<code>"http://www.w3.org/2001/XMLSchema</code>` for XML DTD [a href='http://www.w3.org/TR/2000/REC-xml-20001006']/XML 1.0[/a].

  , applications must use the value `<code>"http://www.w3.org/TR/REC-xml"</code>` for XML DTD. Other Schema languages are outside the scope of the W3C and therefore should recommend an absolute URI in order to use this method.

* @return  The newly created `<code>LSParser</code>` object. This `<code>LSParser</code>` is either synchronous or asynchronous depending on the value of the `<code>mode</code>` argument.

  By default, the newly created `<code>LSParser</code>` does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is `<code>null</code>`. However, implementations may provide a default error handler at creation time. In that case, the initial value of the `<code>error-handler</code>` configuration parameter on the new created `<code>LSParser</code>` contains a reference to the default error handler.

  @exception DOMException

  * NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is not supported.

*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xx/opti/DefaultText.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xx/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xx/models/XSEmptyCM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xx/opti/TextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ErrorHandlerWrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
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jar/org/apache/xerces/impl/xs/models/CMBuilder.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/parsers/XML11DTDConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObject.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSException.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ElementPSVI.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/LSInputList.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLStrongElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLEmElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSelectElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTrElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDoElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLCardElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLMetaElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMFFieldsetElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSetvarElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTemplateElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLGoElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLInputElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLImgElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDocument.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPrevElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAnchorElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLRefreshElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSmallElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFormControl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTdElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBrElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBigElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLOneventElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLWmlElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLNoopElement.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xx/XMLSchemaDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/Token.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/regex/RangeToken.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/regex/Token.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/SAXParserImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeDeclaration.java
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  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DocumentTypeImpl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/NodeImpl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/TreeWalkerImpl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/ElementImpl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/EntityImpl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/NotationImpl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java

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  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/EntityImpl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/NotationImpl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
  */opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Encodings.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLNSDocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeIteratorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XMLAttributeDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/REUtil.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMNodeListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/TextSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XMLNSDTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XMLNSNSValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredEntityDefinitionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredAttrImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XMLNSValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/EntityReferenceImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
1.2271 maven-artifact 2.0.6

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1.2272 bouncycastle-fips 1.0.2

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1.2273 spring-messaging 5.1.9.RELEASE

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 */
/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> 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].
*/

Found in path(s):
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-
  jar/org/springframework/messaging/simp/config/TaskExecutorRegistration.java
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  jar/org/springframework/messaging/simp/stomp/StompCommand.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-
  jar/org/springframework/messaging/simp/stomp/ConnectionLostException.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-
  jar/org/springframework/messaging/MessageChannel.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-
  jar/org/springframework/messaging/support/AbstractSubscribableChannel.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-
  jar/org/springframework/messaging/handler/annotation/support/PayloadArgumentResolver.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-
  jar/org/springframework/messaging/simp/user/SimpSubscriptionMatcher.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-
  jar/org/springframework/messaging/handler/annotation/SendTo.java
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* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/simp/user/DestinationUserNameProvider.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/simp/annotation/SubscribeMapping.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/handler/MessageCondition.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/tcp/TcpOperations.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompSessionHandlerAdapter.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/handler/invocation/ListenableFutureReturnValueHandler.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/simp/stomp/ConnectionHandlingStompSession.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/handler/invocation/HandlerMethodArgumentResolver.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/handler/annotation/Payload.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompFrameHandler.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/tcp/TcpConnectionHandler.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/config/AbstractBrokerRegistration.java
*/
jar/org/springframework/messaging/handler/invocation/MethodArgumentResolutionException.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/converter/ContentTypeResolver.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/handler/invocation/AbstractAsyncReturnValueHandler.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/simp/support/ErrorMessage.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/simp/user/SimpSession.java
* /opt/cola/permits/1140438343_1614822643.23/0/spring-messaging-5-1-9-release-sources-1-jar/org/springframework/messaging/simp/annotation/support/SubscriptionMethodReturnValueHandler.java
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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases that included the contextlib module.
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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/LocalVariableTypeAttribute.java
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 */
1.2283 spring-boot 2.2.6.RELEASE

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* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/web/reactive/context/AnnotationConfigReactiveWebApplicationContext.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/jta/atomikos/AtomikosProperties.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/convert/DurationToStringConverter.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/context/annotation/package-info.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/jdbc/EmbeddedDatabaseConnection.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/context/event/SpringApplicationEvent.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/info/GitProperties.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/web/reactive/result/view/MustacheViewResolver.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/convert/IsoOffsetFormatter.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/context/properties/ConfigurationPropertiesBeanDefinitionValidator.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1.jar/org/springframework/boot/info/InfoProperties.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1.jar/org/springframework/boot/context/properties/bind/validation/BindValidationException.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1.jar/org/springframework/boot/web/server/PortInUseException.java
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* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/web/servlet/DispatcherType.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/convert/StringToDurationConverter.java
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* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1.jar/org/springframework/boot/commandLineRunner.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1.jar/org/springframework/boot/validation/MessageInterpolatorFactory.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1.jar/org/springframework/boot/json/JsonParseException.java
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/**
 * A [@link WebApplicationContext] that can be used to bootstrap itself from a contained
 * [@link ServletWebServerFactory] bean.
 * <p>
 * This context will create, initialize and run an [@link WebServer] by searching for a
 * single [@link ServletWebServerFactory] bean within the [@link ApplicationContext]
 * itself. The [@link ServletWebServerFactory] is free to use standard Spring concepts
 * (such as dependency injection, lifecycle callbacks and property placeholder variables).
 * <p>
 * In addition, any [@link Servlet] or [@link Filter] beans defined in the context will be
 * automatically registered with the web server. In the case of a single Servlet bean, the
 * '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
 * name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
 * always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
 * <p>
 * For more advanced configuration, the context can instead define beans that implement
 * the [@link ServletContextInitializer] interface (most often
 * [@link ServletRegistrationBean]s and/or [@link FilterRegistrationBean]s). To prevent
 * double registration, the use of [@link ServletContextInitializer] beans will disable
 * automatic Servlet and Filter bean registration.
 * <p>
 * Although this context can be used directly, most developers should consider using the
 * [@link AnnotationConfigServletWebServerApplicationContext] or
 * [@link XmlServletWebServerApplicationContext] variants.
 *
 * @author Phillip Webb
 * @author Dave Syer
 * @since 2.0.0
 * @see AnnotationConfigServletWebServerApplicationContext
 * @see XmlServletWebServerApplicationContext
 * @see ServletWebServerFactory
 */

Found in path(s):
/opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-
jar/org/springframework/boot/web/servlet/context.ServletWebServerApplicationContext.java

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* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/system/ApplicationHome.java
* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/system/JavaVersion.java
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* /opt/cola/permits/1136290171_1613729646.62/0/spring-boot-2-2-6-release-sources-1-jar/org/springframework/boot/cloud/CloudFoundryVcapEnvironmentPostProcessor.java
*/
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1.2285 joda-time 2.10.8

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```java
/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections.
 * @param securePort the secure port to redirect to.
 */

/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
 * @param secureScheme A scheme string like "https"
 */
```

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1.2292 xorg-x11-fonts 7.5 9.el7

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The full snowball package is available from http://snowball.tartarus.org/

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was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

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```
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
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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,
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/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.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
```

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stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt
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```
WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
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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.

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.

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

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of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
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
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that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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d) If distribution of the work is made by offering access to copy
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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
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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.)

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* /opt/cola/permits/1170722877_1622668777.58/0/wagon-provider-api-1-0-alpha-5-sources-jar/org/apache/maven/wagon/events/TransferEvent.java
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1.2316 jcip-annotation 1.0 1

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* /opt/cola/permits/1000738208_1608730690.09/0/xercesimpl-zip/xercesimpl-jar/org/apache/xerces/implementations/XMLSchemaMessages.properties

1.2318 nss-util 3.53.1-1.el7_9

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1.2321 asm-util 7.1
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* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/CheckModuleAdapter.java
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* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
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  jar/org/objectweb/asm/util/ASMifierSupport.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
  jar/org/objectweb/asm/util/Textifiable.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
  jar/org/objectweb/asm/util/ASMifiable.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
  jar/org/objectweb/asm/util/TextifierSupport.java

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1.2324 webencodings 0.5.1

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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from setuptools import setup, find_packages
import io
import os
import re

VERSION = re.search("VERSION = '\(["\"]+\)\'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
)
import json
try:
    from urllib import urllib3
except ImportError:
    from urllib.request import urllib3

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~
Regenerate the webencodings.labels module.

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```python
import json
try:
    from urllib import urllib3
except ImportError:
    from urllib.request import urllib3
```
def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['
    "
    
    webencodings.labels
    ~~~~~~~~~~~~~~~

    Map encoding labels to their name.

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    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
    '"
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
        repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s ' % (label, ' ' * (max_len - len(label)), name)
    for label, name in labels)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, `US-ASCII` and `iso-8859-1` on the web are actually
aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
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Classifier: Programming Language :: Python :: Implementation :: CPython
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python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
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In order to be compatible with legacy web content
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This module has encoding labels and BOM detection,
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1.2326 plexus-compiler-manager 2.2

1.2327 maven-plugin-descriptor 2.0.6

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jar/org/springframework/core/style/DefaultToStringStyler.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-
jar/org/springframework/util/xml/SimpleTransformErrorListener.java
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* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-jar/org/springframework/core/type/filter/TypeFilter.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-jar/org/springframework/core/io/FileSystemResourceLoader.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-jar/org/springframework/core/task/TaskTimeoutException.java
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1.2330 jackson-datatype-jdk8 2.11.4

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Manifest-Version: 1.0
Bnd-LastModified: 1607734244150
Build-Jdk-Spec: 1.8
Bundle-Description: Add-on module for Jackson (http://jackson.codehaus.org) to support JDK 8 data types.
Bundle-DocURL: https://github.com/FasterXML/jackson-modules-java8/jackson-datatype-jdk8
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jackson datatype: jdk8
Bundle-SymbolicName: com.fasterxml.jackson.datatype.jackson-datatype-jdk8
Bundle-Vendor: FasterXML
Bundle-Version: 2.11.4
Created-By: Apache Maven Bundle Plugin
Implementation-Build-Date: 2020-12-12 00:50:35+0000
Implementation-Title: Jackson datatype: jdk8
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.jackson.datatype
Implementation-Version: 2.11.4
Import-Package: com.fasterxml.jackson.core;version="[2.11,3)";com.fasterxml.jackson.core.io;version="[2.11,3)";com.fasterxml.jackson.core.util;version="[2.11,3)";com.fasterxml.jackson.databind;version="[2.11,3)";com.fasterxml.jackson.databind.deser;version="[2.11,3)";com.fasterxml.jackson.databind.jsonFormatVisitors;version="[2.11,3)";com.fasterxml.jackson.databind.jsontype;version="[2.11,3)";com.fasterxml.jackson.databind.datatyp bind.deser;version="[2.11,3)";com.fasterxml.jackson.databind.ser;version="[2.11,3)";com.fasterxml.jackson.databind.ser.impl;version="[2.11,3)";com.fasterxml.jackson.databind.datatyp bind;version="[2.11,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Specification-Title: Jackson datatype: jdk8
Specification-Vendor: FasterXML
1.2331 jboss-modules 1.5.2.Final

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1.2333 tiger-types 1.4

1.2334 ttmkfdir 3.0.9-42.el7

1.2335 zlib 1.2.11
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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jloup@gzip.org          madler@alumni.caltech.edu

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

1.2336 org.jacoco.agent.rt 0.8.2
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1.2343 httpcomponents-core 4.0.1

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1.2345 jetty-servlet 9.4.39.v20210325

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

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

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* java.sun.security.ssl

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

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

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

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

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

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Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2346 managementehcacheimpl 2.10.6

1.2347 plexus-component-annotations 1.6
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1.2351 x-crypto v0.0.0-20201124201722-c8d3bf9c5392

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  jar/springfox/bean/validators/plugins/parameter/ExpandedParameterNotNullAnnotationPlugin.java
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  jar/springfox/bean/validators/plugins/parameter/ExpandedParameterNotBlankAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-
  jar/springfox/bean/validators/configuration/BeanValidatorPluginsConfiguration.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-
  jar/springfox/bean/validators/plugins/Validators.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-
  jar/springfox/bean/validators/plugins/schema/PatternAnnotationPlugin.java
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E-Mail: jstrachan@apache.org
Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:
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E-Mail: gordon.king@simulalabs.com
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<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

Apache

The following artifacts are ASL2 licensed.

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

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

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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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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1.2372 go-jmespath v0.4.0

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* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL
* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitt@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacababadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
* App Engine environment tests.
* Documentation re-write.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from ```HTTPResponse.stream()```
* Bugfix for ```ConnectionPool.urlopen(release_conn=False)```. 
* Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist
* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6
* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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