Open Source Used In Crosswork Data Gateway 1.1.4

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   * Fixed warnings about generated constructors not explicitly initializing
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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)
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* /opt/ws_local/PERMITS_SQL/1013730216_1591383894.89/0/slf4j-log4j12-1-7-28-sources-jar/org/slf4j/impl/Log4jMDCApi.java

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* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
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* Fixed minor IBM xIC compiler build issues
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1.16 spring-context 5.1.10

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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.
*This FactoryBean is a direct alternative to [@link MBeanServerFactoryBean],
*which uses standard JMX 1.2 API to access the platform's MBeanServer.
*<p>See the javadocs for WebSphere's
*<p>@author Juergen Hoeller
*<p>@author Rob Harrop
*<p>@since 2.0.3
*<p>@see java.management.MBeanServer
*<p>@see MBeanServerFactoryBean
*/

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  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/remoting/RemoteTimeoutException.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/context/annotation/ComponentScans.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/format/datetime/joda/DurationFormatter.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/context/config/AnnotationDrivenBeanDefinitionParser.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/format/datetime/joda/PeriodFormatter.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/scripting/config/LangNamespaceHandler.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/format/datetime/joda/YearMonthDayFormatter.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/format/datetime/joda/YearMonthDayTimeFormatter.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/scripting/config/LangNamespaceHandler.java
  * /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/scripting/config/LangNamespaceHandler.java
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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/validation/annotation/Validated.java
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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources.jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources.jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java

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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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*/
/**
 * 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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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-
jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-
jar/org/springframework/ui/context/support/SimpleTheme.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-
jar/org/springframework/context/event/ContextRefreshedEvent.java
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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/remoting/rmi/CodebaseAwareObjectInputStream.java
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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/context/event/ContextStoppedEvent.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/validation/BindingErrorProcessor.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/jmx/access/InvalidInvocationException.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/jmx/access/InvocationFailureException.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/scheduling/Trigger.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/jmx/export/ assembler/MBeanInfoAssembler.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/remoting/RemoteConnectFailureException.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/ui/context/Theme.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/jmx/export/ UnableToRegisterMBeanException.java
1.17 perfmark-perfmark-api 0.19.0

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1.18 faad 2.8.8

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1.20 apache-log4j 1.2.15

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1.22 vixie-cron 3.0pl1 128.1ubuntu1

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1.23 ruby-power-assert 0.3.0 1

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1.24 guava 19.0

1.25 project-lombok 1.18.10
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1.26 xerces-j 2.11.0

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4.1.43.Final
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* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/io/netty/channel/unix/Buffer.java
* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/netty_unix_buffer.c
* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/netty_unix_buffer.h
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* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/io/netty/channel/unix/IovArray.java
* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java

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* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/netty_unix_filedescriptor.c
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* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java
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* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/netty_unix_util.c
* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/netty_unix_limits.h
* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/netty_unix_util.h
* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
* /opt/ws_local/PERMITS_SQL/1014221207_1591377202.21/0/netty-transport-native-unix-common-4-1-43-final-sources-jar/io/netty/channel/unix/Limits.java

1.28 sshguard 1.7.1 1
1.29 jackson-module-jaxb-annotations 2.9.9

1.30 yang-common 1.2.3
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* /opt/ws_local/PERMITS_SQL/1009429786_1592506323.44/0/error-prone-annotations-2-3-3-sources-1.jar/com/google/errorprone/annotations/FormatString.java
* /opt/ws_local/PERMITS_SQL/1009429786_1592506323.44/0/error-prone-annotations-2-3-3-sources-1.jar/com/google/errorprone/annotations/MustBeClosed.java
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* /opt/ws_local/PERMITS_SQL/1009429786_1592506323.44/0/error-prone-annotations-2-3-3-sources-1-
  jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/ws_local/PERMITS_SQL/1009429786_1592506323.44/0/error-prone-annotations-2-3-3-sources-1-
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1.32 spring-security 5.1.7

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import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 * @author Ben Alex
 */
public interface Permission extends Serializable {

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 */
public interface Permission extends Serializable {

    char RESERVED_ON = '~';
    char RESERVED_OFF = '.';
    String THIRTY_TWO_RESERVED_OFF = "................................");

    // ~ Methods

/**
 * Returns the bits that represents the permission.
 *
 * @return the bits that represent the permission
 */
int getMask();

/**
 * Returns a 32-character long bit pattern <code>String</code> representing this
 * permission.
 *
 * Implementations are free to format the pattern as they see fit, although under no
 * circumstances may [@link #RESERVED_OFF] or [@link #RESERVED_ON] be used within the
 * pattern. An exemption is in the case of [@link #RESERVED_OFF] which is used to
 * denote a bit that is off (clear). Implementations may also elect to use
 * [@link #RESERVED_ON] internally for computation purposes, although this method may
 * not return any <code>String</code> containing [@link #RESERVED_ON].
 *
 * The returned String must be 32 characters in length.
 *
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 *
 * @return a 32-character bit pattern
 */
String getPattern();

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* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/bytecode/LongVector.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/runtime/Desc.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/bytecode/FieldInfo.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/CtNewNestedClass.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/expr/Expr.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/compiler/SyntaxError.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/compiler/ast/FieldDecl.java
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* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/tools/Dump.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/bytecode/CodeIterator.java
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* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/CtMember.java
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1.34 feign-slf4j 10.2.3
1.35 yang-parser-api 1.2.3

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1.37 error_prone_annotations 2.3.2

1.38 cpp 8.3.0-r1

1.38.1 Available under license:

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Version 3.1, 31 March 2009

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work) run the object code and to modify the work, including scripts to
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1.40 gorilla 1.7.2

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1.45 jackson-annotations jackson-annotations-2.10.0

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1.46 byte-buddy-agent 1.9.3

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* /opt/ws_local/PERMITS_SQL/1014221971_1591897540.69/0/byte-buddy-agent-1-9-3-sources-jar/net/bytebuddy/agent/VirtualMachine.java
* /opt/ws_local/PERMITS_SQL/1014221971_1591897540.69/0/byte-buddy-agent-1-9-3-sources-jar/net/bytebuddy/agent/package-info.java
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1.47 rake 12.3.1 1
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1.48 zstd-jni 1.4.0 1

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1.49 apache-yetus-audience-annotations 0.5.0

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* /opt/ws_local/PERMITS_SQL/1014297059_1591372351.24/0/jnr-enxio-0-16-sources-
  jar/jnr/enxio/channels/NativeSelectableChannel.java
* /opt/ws_local/PERMITS_SQL/1014297059_1591372351.24/0/jnr-enxio-0-16-sources-
  jar/jnr/enxio/channels/KQSelectionKey.java

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1.55 expat 2.2.8-r0

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1.56 xz 5.2.2 1.3
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1.58 netty-handler 4.1.39

1.59 jackson-jaxrs-base 2.9.9

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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java
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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/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/rxtx/package-info.java
  * /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/udt/UdtServerChannel.java
  * /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/oio/OioByteStreamChannel.java
  * /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/sctp/SctpChannelOption.java
  * /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
  * /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
  * /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java
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  * /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java
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  * /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.java
  * /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http2/Http2CodecUtil.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheResponse.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/memcache/LastMemcacheContent.java
*/opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java
*/opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/util/AbstractReferenceCounted.java
*/opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.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.
 */

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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
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jar/io/netty/util/internal/logging/JdkLogger.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/util/internal/logging/InternalLogger.java
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jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/ss/CipherSuiteFilter.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/util/concurrent/PromiseAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/haproxy/package-info.java
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframeEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http/HttpHeaderValues.java
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jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java
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jar/io/netty/example/stomp/StompClient.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/example/http2/helloworld/server/HelloWorldHttp1Handler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/resolver/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
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jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.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>

 <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]<Message> {
*
*     private boolean loggedIn;
*
*     {@code @Override}
*     public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*         [@link Channel] ch = e.getChannel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ch.write(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]<Channel> {
*     {@code @Override}
*     public void initChannel([@link Channel] channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()}</b>);
*     }
* }
* </pre>
* 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);
        Channel ch = ctx.channel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ch.write(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);
    }
}
```

* `<h4>Using `AttributeKey`<s></h4>`
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

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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/*
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/traffic/GlobalChannelT
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/handler/codec/http2/HpackUtil.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java
jar/io/netty/handler/codec/http2/HpackDynamicTable.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http2/HpackStaticTable.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http2/HpackEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http2/HpackDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http2/HpackHeaderField.java
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jar/io/netty/example/oosp/Digester.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/example/oosp/OcspRequestBuilder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/example/oosp/OcspUtils.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/example/oosp/OcspClientExample.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/example/oosp/OcspServerExample.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>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* <b>lengthAdjustment</b> = 0
* initialBytesToStrip = 0 (= do not strip header)
* </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
* <tt>{@link ByteBuf#readableBytes()}</tt>, 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)

* 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>`
  * 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> *
*
* <h3>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.
* <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>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
     strip the first header field and the length field</h3>
*
* 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>.
* <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" |
* +---------------------------------------- +----------------------------------------+
* </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</h3>
*
* 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 `<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>`
* `<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/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-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
  * <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/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/unix/DnsMessageUtil.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/codec/headers/HeaderUtil.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/headers/HeaderUtil.java
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/util/DomainMappingBuilder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/channel/pool/DefaultChannelPool.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordType.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/example/http2/tiles/Http1RequestHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/util/HashingStrategy.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieDecoder.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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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ForwardingManagedChannel.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/AutoConfiguredLoadBalancerFactory.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ChannelTracer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/DeprecatedCensusConstants.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ForwardingClientStreamListener.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/JsonParser.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/RetryPolicy.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/HedgingPolicy.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ForwardingClientStream.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/PickFirstLoadBalancerProvider.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ServerCallInfoImpl.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/ForwardingLoadBalancerHelper.java
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* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ManagedChannelServiceConfig.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ConscryptLoader.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/ForwardingSubchannel.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/GracefulSwitchLoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/TransportProvider.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/ForwardingClientStreamTracer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ServiceConfigInterceptor.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ServiceConfigUtil.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/Rescheduler.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/ForwardingLoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ChannelLoggerImpl.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ManagedChannelOrphanWrapper.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/SecretRoundRobinLoadBalancerProvider.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/ForwardingClientStreamTracer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/GracefulSwitchLoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/ForwardingSubchannel.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/Rescheduler.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ManagedChannelServiceConfig.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ChannelLoggerImpl.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/ForwardingLoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/Rescheduler.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ServiceConfigInterceptor.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ServiceConfigUtil.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ServiceConfigUtil.java
*/
jar/io/grpc/internal/BaseDnsNameResolverProvider.java

jar/io/grpc/internal/JsonUtil.java

jar/io/grpc/internal/InsightBuilder.java

jar/io/grpc/internal/ServiceConfigState.java

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* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/FailingClientStream.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/LogExceptionRunnable.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/inprocess/InProcessSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ObjectPool.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/CallCredentialsApplyingTransportFactory.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/SharedResourcePool.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/KeepAliveManager.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/StatsTraceContext.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/CensusStatsModule.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/OobChannel.java
1.64 jboss-logging 3.3.3.Final
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1.65 asm-analysis 5.0.3
package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a {@code java.io.FilePermission} object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * {@code java.lang.RuntimePermission},
 * that don't need such a list; you either have the named permission (such
An important method that must be implemented by each subclass is the \{\texttt{implies}\} method to compare Permissions. Basically, "permission p1 implies permission p2" means that if one is granted permission p1, one is naturally granted permission p2. Thus, this is not an equality test, but rather more of a subset test.

Permission objects are similar to String objects in that they are immutable once they have been created. Subclasses should not provide methods that can change the state of a permission once it has been created.

* @see Permissions
* @see PermissionCollection

* @author Marianne Mueller
* @author Roland Schemers

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */

    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The \{\texttt{SecurityManager.checkPermission}\} method is called, passing this permission object as the permission to check. Returns silently if access is granted. Otherwise, throws a SecurityException.
     *
     * @param object the object being guarded (currently ignored).
     */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 *
 * <p>The [@code implies] method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @param permission the permission to check against.
 *
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the [@code equals] method for making access control
 * decisions; use the [@code implies] method.
 *
 * @param obj the object we are testing for equality with this object.
 *
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
The required \texttt{hashCode} behavior for Permission Objects is the following:

\begin{itemize}
\item Whenever it is invoked on the same Permission object more than once during an execution of a Java application, the \texttt{hashCode} method must consistently return the same integer. This integer need not remain consistent from one execution of an application to another execution of the same application.
\item If two Permission objects are equal according to the \texttt{equals} method, then calling the \texttt{hashCode} method on each of the two Permission objects must produce the same integer result.
\end{itemize}

\begin{verbatim}
public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a \texttt{java.io.FilePermission}, the name will be a pathname.
 * \return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract so subclasses can defer creating a String representation until one is needed. Subclasses should always return actions in what they consider to be their canonical form. For example, two FilePermission objects created via the following:
 * \begin{verbatim}
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * \end{verbatim}
 * both return
\end{verbatim}
\end{itemize}
* "read,write" when the {@code getActions} method is invoked.
* 
* @return the actions of this Permission.
* 
*/

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {@code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 * 
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions")', or
 * "("ClassName" "name")' if actions list is null or empty.
 * 
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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/**
 * A simple interface to show the End User License Agreement(EULA) dialog
 */
public interface Eula {

    /**
     * display the eula dialog, if not already shown
     * @return false if eula was rejected, true otherwise
     */
    public boolean show();

    /**
     * accept the EULA, so no EULA dialog will be displayed
     */
    public void accept();
}
}
package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 *
 */
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();

}

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Version 2, June 1991

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1.78 jnr-ffi 2.1.4

1.79 jackson-jaxrs-json-provider 2.9.10

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It is currently developed by a community of developers, as well as supported
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/SctpChannelOption.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/rxtx/package-info.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/udt/UdtServerChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/oio/OioByteStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/rxtx/RxtxDeviceAddress.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/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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jar/io/netty/internal/tcnative/SSL.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/internal/tcnative/SSLContext.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/internal/tcnative/Library.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/internal/tcnative/Buffer.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
* 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/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/base64/Base64.java

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jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/channel/AbstractCoalescingBufferQueue.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>
* 2 bytes length field at offset 0, do not strip header</p>
*<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>
* 2 bytes length field at offset 0, strip header</p>
*<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
* initialBytesToStrip = 2 (= the length of the Length field)
* </pre>
*<p>
* 2 bytes length field at offset 0, strip header</p>
*<p>
* Before decode (14 bytes) AFTER decode (14 bytes)
* +--------+----------------+------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+------+
*<p>
* 2 bytes length field at offset 0, strip header</p>
*<p>
* Before decode (14 bytes) AFTER decode (12 bytes)
* +--------+----------------+------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "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 lengthAdjustment. Because the length value in this example message is always greater than the body length by 2, we specify -2 for compensation.

* 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" |

* 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.

* 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 |----->| 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 `<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>

* 2 bytes length field at offset 1 in the middle of 4 bytes header,
  * strip the first header field and the length field</h3>

* 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>`.
  *<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 |
  | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |
  +----------------+----------------+----------------+
  </pre>

*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>

* 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> = -3 (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = 3

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
  * +--------+--------+------|----------------|
  * | HDR1  | Length | HDR2 | Actual Content |
  * | 0xCA   | 0x0010 | 0xFE | "HELLO, WORLD" |
  * +--------+--------+------|----------------|

* @see LengthFieldPrepender

*/

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/SctpMessage.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
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arj/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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arj/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/ws\_local/PERMITS\_SQL/1014298136\_1591897446.55/0/netty-all-4-1-43-final-sources-
arj/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /opt/ws\_local/PERMITS\_SQL/1014298136\_1591897446.55/0/netty-all-4-1-43-final-sources-
arj/io/netty/handler/codec/xml/XmlDecoder.java
* /opt/ws\_local/PERMITS\_SQL/1014298136\_1591897446.55/0/netty-all-4-1-43-final-sources-
arj/io/netty/handler/codec/compression/Lz4FrameDecoder.java
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arj/io/netty/handler/codec/haproxy/HAProxyConstants.java
* /opt/ws\_local/PERMITS\_SQL/1014298136\_1591897446.55/0/netty-all-4-1-43-final-sources-
arj/io/netty/handler/codec/stomp/LastStompContentSubframe.java
* /opt/ws\_local/PERMITS\_SQL/1014298136\_1591897446.55/0/netty-all-4-1-43-final-sources-
arj/io/netty/example/http2/helloworld/server/Http2Server.java
* /opt/ws\_local/PERMITS\_SQL/1014298136\_1591897446.55/0/netty-all-4-1-43-final-sources-
arj/io/netty/channel/epoll/Epoll.java
* /opt/ws\_local/PERMITS\_SQL/1014298136\_1591897446.55/0/netty-all-4-1-43-final-sources-
arj/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/mqtt/MqttDecoder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty/all-4-1-43-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty/all-4-1-43-final-sources-jar/io/netty/handler/codec/xml/XmlElementStart.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty/all-4-1-43-final-sources-jar/io/netty/handler/codec/xml/XmlAttribute.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty/all-4-1-43-final-sources-jar/io/netty/handler/codec/stomp/StompSubframeAggregator.java
jar/io/netty/resolver/SimpleNameResolver.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/mqtt/MqttConnectVariableHeader.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.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/example/ocsp/OcspClientExample.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/example/ocsp/Digester.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/example/ocsp/OcspServerExample.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/example/ocsp/OcspRequestBuilder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/example/ocsp/OcspUtils.java

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/util/internal/ResourcesUtil.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/util/ByteProcessorUtils.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java

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  jar/io/netty/handler/codec/FullHttpMessage.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/util/concurrent/GenericFutureListener.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/channel/udt/UdtChannelOption.java
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/ReferenceCountUtil.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/internal/ConcurrentSet.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/example/rxtx/RxtxClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/concurrent/Future.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/memcache/MemcacheObject.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/epoll/Native.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/spdy/AdvancedLeakAwareByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/internal/EmptyArrays.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/memcache/MemcacheContent.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/memcache/MemcacheMessage.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/memcache/MemcacheRequest.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/memcache/MemcacheResponse.java

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/example/http/websocketx/client/WebSocketClientHandler.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.
 */

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/udt/UdtChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/sctp/ScpMessageToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/traffic/package-info.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/sctp/ScpMessageCompletionHandler.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/redis/RedisCodecException.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/redis/RedisDecoder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
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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>
* 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) {
*         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:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}@{@link Channel}@{@link Channel}&gt; { 
*     {@code @Override}
*     public void initChannel({@link Channel} channel) { 
*         channel.pipeline().addLast("handler", &lt;b&gt;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}:
* <pre>
* public interface Message { 
*     // your methods here 
* }
*
*  {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}@{@link Message}@{@link Message}&gt; { 
*     private final {@link AttributeKey}@{@link AttributeKey}@{@link AttributeKey}&gt; auth = 
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*  {@code @Override}
* public void channelRead({@link ChannelHandlerContext} ctx, Message message) { 
*     if (message instanceof LoginMessage) { 
*         authenticate((LoginMessage) o); 
*         &lt;b&gt;attr.set(true)</b>;
*     } else (message instanceof GetDataMessage) { 
*         if (&lt;b&gt;Boolean.TRUE.equals(attr.get())</b>) { 
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*         } else { 
*             fail();
*         }
*     }
*     ...
* }
* </pre>
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>`);
    }
}
```

<h4>The `<code>@Sharable</code>` 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>.

<h3>Additional resources worth reading</h3>

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/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4.1.43-final-sources-jar/io/netty/util/DomainMappingBuilder.java
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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/internal/logging/JdkLogger.java

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1.89 regexp 2.7.2

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1.90 util 0.8.4

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1.92 jackson-module-scala 2.10.0

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1.95 snappy-java 1.1.7.3

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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
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- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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- web-common_3_1.xsd
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/graph/ElementOrder.java
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  jar/com/google/common/primitives/Shorts.java
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  jar/com/google/common/primitives/Ints.java
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  jar/com/google/common/escape/UnicodeEscaper.java
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  jar/com/google/common/collect/FluentIterable.java
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  jar/com/google/common/base/internal/Finalizer.java
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  jar/com/google/thirdparty/publicsuffix/TrieParser.java
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  jar/com/google/common/base/Joiner.java
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  jar/com/google/common/io/MultiReader.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/base/Stopwatch.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/graph/MutableNetwork.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/graph/PredecessorsFunction.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/graph/ImmutableGraph.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/SortedMapDifference.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/common-util/concurrent/AbstractHashFunction.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/Futures.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/escape/CharEscaper.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/reflect/TypeToken.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/base/CaseFormat.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?
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
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*/
/**
 * Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
 * version.
 */
Found in path(s):
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  jar/com/google/common/base/ExtraObjectsMethodsForWeb.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</b> {link
 * ImmutableSortedMap#of(Comparable, Object)}.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
  jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/ByteSink.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/math/StatsAccumulator.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/CharSource.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/reflect/TypeCapture.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/base/StandardSystemProperty.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/FileWriteMode.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/CartesianList.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/ImmutableRangeMap.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/ByteSource.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/reflect/Invokable.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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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/Count.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/RangeSet.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/GeneralRange.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/SortedIterable.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/AbstractRangeSet.java

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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/SortedMultiset.java

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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/ImmutableMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/JdkBackedImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/JdkBackedImmutableMap.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 {@code Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* 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
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  jar/com/google/common/reflect/Reflection.java

1.108 protobuf-java 3.4.0

1.109 feign-okhttp 10.4.0

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1.115 animal-sniffer-annotation 1.18

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  jar/org/codehaus/mojo/animal_sniffer/IgnoreJRERequirement.java

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1.120 cglib 2.1_3

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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/Factory.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/MethodInterceptor.java

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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/util/ParallelSorterEmitter.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/FixedValue.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/ClassVisitorTee.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/TransformingClassGenerator.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/AddPropertyTransformer.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ClassEmitter.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/UndeclaredThrowableStrategy.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/NullClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/InterceptFieldFilter.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/util/ParallelSorter.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/ClassTransformerTee.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/MethodFilterTransformer.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/AddDelegateTransformer.java
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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ClassNameReader.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/FieldProviderTransformer.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/TinyBitSet.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/ProxyRefDispatcher.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/BulkBean.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/CodeVisitorTee.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ProcessSwitchCallback.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/InterceptFieldEnabled.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/Converter.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/hook/AbstractPreProcessor.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/NoOp.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/LazyLoader.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/util/SorterTemplate.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/beans/BeanGenerator.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/DefaultGeneratorStrategy.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/AccessFieldTransformer.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/NamingPolicy.java
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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/MixinBeanEmitter.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/hook/AsmClassLoaderPreProcessor.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/FieldProvider.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/ClassLoaderGenerator.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/InterceptFieldCallback.java

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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/MethodInfo.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/CallbackHelper.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/RejectModifierPredicate.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/MixinEverythingEmitter.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ClassInfo.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/impl/AddInitTransformer.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/MethodInfoTransformer.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/InterfaceMaker.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/AbstractClassFilterTransformer.java
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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/DebuggingClassWriter.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/AbstractClassGenerator.java
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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/Mixin.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/MixinEmitter.java
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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/DispatcherGenerator.java
* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/DefaultNamingPolicy.java
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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/transform/ClassTransformerChain.java
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### 1.121 selinux 2.7-2build2

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1.122 json-simple 1.1.1

1.123 io-grpc-grpc-testing 1.25.0
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/opt/ws_local/PERMITS_SQL/1014842711_1591896934.85/0/grpc-testing-1-25-0-sources-jar/io/grpc/internal/testing/SingleMessageProducer.java
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/opt/ws_local/PERMITS_SQL/1014842711_1591896934.85/0/grpc-testing-1-25-0-sources-jar/io/grpc/internal/testing/TestServerStreamTracer.java
/opt/ws_local/PERMITS_SQL/1014842711_1591896934.85/0/grpc-testing-1-25-0-sources-jar/io/grpc/testing/GrpcServerRule.java
/opt/ws_local/PERMITS_SQL/1014842711_1591896934.85/0/grpc-testing-1-25-0-sources-jar/io/grpc/internal/NoopServerCall.java
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/opt/ws_local/PERMITS_SQL/1014842711_1591896934.85/0/grpc-testing-1-25-0-sources-jar/io/grpc/internal/testing/AbstractClientTransportFactoryTest.java

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jar/io/grpc/internal/testing/TestStreamTracer.java
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package engine

import (  
"time"  
"github.com/docker/cli/cli/command/formatter"  
"github.com/docker/cli/internal/licenseutils"  
"github.com/docker/licensing/model"
)

defaultSubscriptionsTableFormat = "table{{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

numHeader = "NUM"
// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}
    licenseCtx.Header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
        "ID": idHeader,
        "DOCKER ID": dockerIDHeader,
        "PRODUCT ID": productIDHeader,
        "PRODUCT RATE PLAN": productRatePlanHeader,
        "PRODUCT RATE PLAN ID": productRatePlanIDHeader,
        "START": startHeader,
        "EXPIRES": expiresHeader,
        "STATE": stateHeader,
        "EUSA": eusaHeader,
        "PRICING COMPONENTS": pricingComponentsHeader
    }
    // NewSubscriptionsFormat returns a Format for rendering using a license Context
    func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
        switch source {
        case formatter.TableFormatKey:
            if quiet {
                return defaultSubscriptionsQuietFormat
            }
            return defaultSubscriptionsTableFormat
        case formatter.RawFormatKey:
            if quiet {
                return `license: {{.ID}}`
            }
            return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
        return formatter.Format(source)
    }
    // SubscriptionsWrite writes the context
    func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
        render := func(format func(subContext formatter.SubContext) error) error {
            for _, sub := range subs {
                licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
                if err := format(licenseCtx); err != nil {
                    return err
                }
            }
            return nil
        }
        licenseCtx := licenseContext{}
        licenseCtx.Header = map[string]string{
            "Num": numHeader,
            "Owner": ownerHeader,
            "Name": licenseNameHeader,
            "ID": idHeader,
"DockerID": dockerIDHeader,
"ProductID": productIDHeader,
"ProductRatePlan": productRatePlanHeader,
"ProductRatePlanID": productRatePlanIDHeader,
"Start": startHeader,
"Expires": expiresHeader,
"State": stateHeader,
"Eusa": eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
  formatter.HeaderContext
  trunc bool
  l     licenseutils.LicenseDisplay
}
unc (c *licenseContext) MarshalJSON() ([]byte, error) {
  return formatter.MarshalJSON(c)
}
unc (c *licenseContext) Num() int {
  return c.l.Num
}

func (c *licenseContext) Owner() string {
  return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
  return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
  return c.l.String()
}

func (c *licenseContext) Name() string {
  return c.l.Name
}

func (c *licenseContext) ID() string {
  return c.l.ID
}

func (c *licenseContext) DockerID() string {
return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
return c.l.Expires
}

func (c *licenseContext) State() string {
return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
// Dereference the pricing component pointers in the pricing components
// so it can be rendered properly with the template formatter

var ret []model.SubscriptionPricingComponent
for _, spc := range c.l.PricingComponents {
if spc == nil {
continue
}
ret = append(ret, *spc)
}
return ret
}

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package licensing

import (   "context"   "crypto/hmac"   "crypto/sha256"   "encoding/base64"   "encoding/json"   "fmt"   "time"

   "github.com/docker/libtrust"
   "github.com/docker/licensing/lib/errors"
   "github.com/docker/licensing/lib/go-clientlib"
   "github.com/docker/licensing/model"
 )

func (c *Client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {   url := c.baseURI   url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)   license := new(model.IssuedLicense)
if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
    return nil, err
}

return license, nil

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]
    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }

    payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.
// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticaing
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
tokenBytes, err := base64.URLEncoding.DecodeString(token)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

generatedToken, err := generateToken(message, privateKey)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
key, err := base64.URLEncoding.DecodeString(privateKey)
if err != nil {
    return "", errors.Wrap(err, errors.Fields{"msg": message})
}

h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.
type CheckResponse struct {
    Expiration time.Time `json:"expiration"
    Token string `json:"token"
    MaxEngines int `json:"maxEngines"
    ScanningEnabled bool `json:"scanningEnabled"
    Type string `json:"licenseType"
    Tier string `json:"tier"
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID string `json:"key_id"
    PrivateKey string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
if l.PrivateKey == "" {
    return false, "empty private_key"
}

if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""

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procfs provides functions to retrieve system, kernel and process metrics from the pseudofilesystem proc.

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copyright engine

import (  
  "bytes" 
  "encoding/json" 
  "strings" 
  "testing" 
  "time"

  "github.com/docker/cli/cli/command/formatter" 
  "github.com/docker/cli/internal/licenseutils" 
  "github.com/docker/licensing/model" 
  "gotest.tools/assert"
  is "gotest.tools/assert/cmp"
 )

func TestSubscriptionContextWrite(t *testing.T) {
  cases := []struct {
    context  formatter.Context 
    expected string
  }
  // Errors
  
  formatter.Context{Format: "{{InvalidFunction}}"},

Template parsing error: template: :1: function "InvalidFunction" not defined
`
`,
`
{
formatter.Context{Format: "{{nil}}"},
`Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`
`,
`// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table", false)},
`NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS
1 owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring
2 owner2 productid2 2020-01-01 10:00:00 +0000 UTC compstring
`
`,
`,
`// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
`1: License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2: License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`
`,
`,
`// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
`
`,
`,
`// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
`OWNER
owner1
owner2
`
`,
`,
`// Raw Format
{
`license: id1
name: name1
owner: owner1
components: compstring
`
`,
`license: id2
name: name2
owner: owner2
components: compstring
`
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, 
    Owner: "owner1", 
    Subscription: model.Subscription{
        ID: "id1", 
        Name: "name1", 
        ProductID: "productid1", 
        Expires: &expiration, 
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes", 
                Value: 10,
            },
        },
        ComponentsString: "compstring", 
    },
    {Num: 2, 
    Owner: "owner2", 
    Subscription: model.Subscription{
        ID: "id2", 
        Name: "name2", 
        ProductID: "productid2", 
        Expires: &expiration, 
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes", 
                Value: 10,
            },
        },
        ComponentsString: "compstring", 
    },
}
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 10,
},
},
ComponentsString: "compstring",
}
out := &bytes.Buffer{}
testcase.context.Output = out
er := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
assert.Error(t, err, testcase.expected)
} else {
assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := [][]licenseutils.LicenseDisplay{
{Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
ID: "id1",
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 10,
},
},
ComponentsString: "compstring",
},
{Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
        Name: "nodes",
        Value: 20,
    },
    },
    },
ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
    {
        "Owner": "owner1",
        "ComponentsString": "compstring",
        "Expires": "2020-01-01T10:00:00Z",
        "DockerID": "",
        "Eusa": nil,
        "ID": "id1",
        "Start": nil,
        "Name": "name1",
        "Num": float64(1),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name": "nodes",
                "value": float64(10),
            },
        },
        "ProductID": "productid1",
        "ProductRatePlan": "",
        "ProductRatePlanID": "",
        "State": "",
        "Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
    },
    {
        "Owner": "owner2",
        "ComponentsString": "compstring",
        "Expires": "2020-01-01T10:00:00Z",
        "DockerID": "",
        "Eusa": nil,
        "ID": "id2",
        "Start": nil,
        "Name": "name2",
        "Num": float64(2),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name": "nodes",
                "value": float64(20),
            },
        },
    },
}
`productid2`, "ProductRatePlan": "", "ProductRatePlanID": ", "State": "", "Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
}
}

out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "
") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
        subscriptions := []licenseutils.LicenseDisplay{
            {Num: 1, Owner: "owner1"},
            {Num: 2, Owner: "owner2"},
        }
        out := &bytes.Buffer{}
        if err != nil {
            t.Fatal(err)
        }
        for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
            var s string
            if err := json.Unmarshal([]byte(line), &s); err != nil {
                t.Fatal(err)
            }
            assert.Check(t, is.Equal(subscriptions[i].Owner, s))
        }
    }

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.129 netty-resolver 4.1.39

1.130 language-pack-gnome-en-base
18.04+20180712

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1.131 jffi-java-foreign-function-interface
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1.133 libtls standalone 2.9.1-r0

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1.134 curl 7.66.0-r0

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

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the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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1.135 protocol-buffer-java-api 3.10.0

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1.136 zlib 1.2.11 r1

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1.137 mockito 2.23.4

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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.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.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/kqueue/Native.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/resolver/dns/NoopDnsCache.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/HttpServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/c codec/http2/DefaultHttp2HeadersFrame.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/util/concurrent/X509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/c codec/http2/Http2PingFrame.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/c codec/http2/DefaultHttp2ResetFrame.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/ssl/PemValue.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/channel/kqueue/NativeLongArray.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/ssl/DefaultTrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/channel/kqueue/KQueueSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handle d/c codec/smtp/DefaultSmtpContent.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/c codec/http2/DefaultHttp2StreamFrameToHttpObjectCodec.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/util/internal/MacAddressUtil.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/buffer/PooledSlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/ssl/X509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/channel/kqueue/SelectStrategyFactory.java
jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/http2/InboundHttpToHttp2Adapter.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/internal/UnstableApi.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io.netty.util.internal/MathUtil.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io.netty.channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io.netty.handler.codec/DefaultHeadersImpl.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io.netty.handler.codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io.netty.handler.codec/ValueConverter.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/ByteProcessor.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/internal/tcnative/SniHostNameMatcher.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/http2/Http2UnknownFrame.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/internal/ReflectionUtil.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.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>
* <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:
* 
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; { 
*
private boolean login;

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

...
* { @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);
*     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 { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* 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>);
* }
* </pre>
* *
* <h4>The { @code @Sharable} annotation</h4>
* 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>
  *
  * 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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 */

/**
 * 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/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/internal/CleanerJava6.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/DefaultChannelHandlerContext.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/redis/RedisMessageType.java
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  jar/io/netty/handler/codec/stomp/DefaultStompHeadersSubframe.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
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  jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/codec/xml/XmlElement.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-4-2-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-4-2-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-4-2-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-4-2-final-sources-jar/io/netty/handler/ssl/SslContext.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-4-2-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/resolver/dns/DnsResolveContext.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/stomp/StompConstants.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/OpenJdkSelfSignedCertGenerator.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/xml/XmlEntityReference.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/memcache/binary/MemcacheClient.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/ThreadDeathWatcher.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/xml/XmlDTD.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/resolver/dns/package-info.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/internal/IntegerHolder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/compression/Bzip2Constants.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/spdy/client/SpdyClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/xml/XmlCharacters.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessage.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/compression/Bzip2Rand.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/spdy/client/SpdyClient.java
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jar/io/netty/handler/address/package-info.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/http/WebSocketFrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/EventLoopTaskQueueFactory.java

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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/EventLoopTaskQueueFactory.java
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jar/io/netty/resolver/dns/DnsCnameCache.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources.jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources.jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources.jar/io/netty/channel/unix/Buffer.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources.jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources.jar/io/netty/handler/ssl/OpenSslX509ExtendedTrustManager.java

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  * /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources.jar/io/netty/util/internal/logging/FormattingTuple.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources.jar/io/netty/util/internal/logging/MessageFormatter.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.
 */
/**
 * {@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 \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.
 * <pre>
 * \texttt{lengthFieldOffset} = 0
 * \texttt{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" |
 * +--------+----------------+      +--------+----------------+
 * */
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 = 2 (= the length of the Length field)
</pre>

BEFORE DECODE (14 bytes)   AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "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> for compensation.
<pre>
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = -2 (= the length of the Length field)
initialBytesToStrip = 0
</pre>

BEFORE DECODE (14 bytes)   AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+

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>
* 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>
*
* BEFORE DECODE (17 bytes)                     AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFEB   | 0x00000C | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* 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 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>
*
* strip the first header field and the length field</h3>
*
* 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>.
* <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)
<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>

* 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 &lt;tt&gt;lengthAdjustment&lt;/tt&gt;.
  * 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.

* 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/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/udt/UdtServerChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/rxtx/RxtxChannelOption.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/oio/OioByteStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/rxtx/package-info.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/rxtx/RxtxChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/scpt/ScptChannelOption.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/rxtx/RxtxChannelConfig.java

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jar/io/netty/util/internal/ResourcesUtil.java
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jar/io/netty/util/ByteProcessorUtils.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/http/HttpHeaderDateFormat.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/concurrent/FailedFuture.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/http/HeaderDateFormat.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/upload/UploadServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/socket/oio/package-info.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
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jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/example/udt/echo/bytes/ByteEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/socks/DefaultSocks5CommandResponse.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http/multipart/package-info.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/example/factorial/FactorialServer.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4-1-42-final-sources-
jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerTwo.java
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- /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4.1.42-final-sources.jar/io/netty/channel/udt/package-info.java
- /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4.1.42-final-sources.jar/io/netty/handler/channel/EventLoopException.java
- /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4.1.42-final-sources.jar/io/netty/handler/channel/udt/package-info.java
- /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4.1.42-final-sources.jar/io/netty/handler/channel/EventLoopException.java
- /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4.1.42-final-sources.jar/io/netty/handler/codecs/http/websocketx/WebSocket00FrameEncoder.java
- /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4.1.42-final-sources.jar/io/netty/handler/codecs/http/websocketx/WebSocket00FrameEncoder.java
- /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/netty-all-4.1.42-final-sources.jar/io/netty/handler/codecs/http/websocketx/WebSocket00FrameEncoder.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/oep/OcspServer.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/oep/OcspRequestBuilder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/oep/OcspUtils.java
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*/opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/META-INF/maven/io.netty/netty-all/pom.xml

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 */

// Try the OpenJDK's proprietary implementation.

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io.netty/handler/ssl/utils/SelfSignedCertificate.java

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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java

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The encoding and decoding algorithm in this class has been derived from Robert Harder's Public Domain Base64 Encoder/Decoder.

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jar/io/netty/handler/codec/http2/Http2DataWriter.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameListener.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/util/collection/ShortObjectHashMap.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/example/http2/helloworld/client/Http2ClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http2/Http2Flags.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2Connection.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http2/Http2Error.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http2/Http2Settings.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/example/http2/helloworld/client/Http2SettingsHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/util/collection/ShortCollections.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io.netty.util.collection.IntCollections.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-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 href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

Found in path(s):
1.141 gettext 2.17 157.el7_3.4

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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@end heading Preamble

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@end enumerate

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```
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}

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```

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```
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
```
under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

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@example
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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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^L

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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1.142 python-stdlib-extensions 3.6.8 1~18.04

1.143 aspect-j 1.9.4

1.144 jul-to-slf4j 1.7.28

1.145 sbsigntool 0.6-3.2ubuntu2
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1.146 ruby-defaults 2.5.1

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1.152 libnetfilter-cttimeout 1.1.3-r0

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1.153 jnr-unixsocket 0.18

1.154 spring-security-jwt 1.0.7
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1.156 jsr305 3.0.2

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

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None

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The following organisations and people have contributed to the Bouncy Castle Cryptography Package.

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Thanks, may your castles never deflate!
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<p>
The following people donated financially to help with the release of 1.63:
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Joshua Hight

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<p>
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Bihari Babu

</p>

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Jens Neuhalfen and perillamint.

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</p>

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Organisations

- Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!
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- Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com">http://voxeolabs.com</a>
<li><a href="https://www.coreinfrastructure.org/">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.</li>
<li>Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.</li>
<li><a href="https://www.microfocus.com/">Micro Focus</a> - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.</li>

People
<p></p>
<ul>

<li>Tito Pena &lt;Fortunato.Pena@AdNovum.CH&gt; - initial RC5 implementation</li>
<li>Michael Lee &lt;yfl@mira.net&gt; - initial RC6 implementation, MD2 implementation</li>
<li>Nuno Santos &lt;nsantos@student.dei.uc.pt&gt; - finding toString bug in certificate object.</li>
<li>Brett Sealey &lt;bretts@mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).</li>
<li>Victor A. Salaman &lt;salaman@teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.</li>
<li>Eran Librach &lt;eranl@valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).</li>
<li>Jonathan Knudsen &lt;jonathan@LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
<li>Markus Niedermann &lt;markus.niedermann@softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
<li>Mike Benham &lt;moxie@thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.</li>
<li>Soren Hilmer &lt;hilmer@mail.tele.dk&gt; - initial implementation of netscape certificate request classes.</li>
<li>Uwe Guenther &lt;uwe@cscc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.</li>
<li>Markus Bradtke &lt;mab@informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.</li>
<li>Waclaw Sierek &lt;wacław.sierek@tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.</li>
<li>Ly-Na Phu &lt;lyna.phu@init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.</li>
<li>Stefan K&ouml;ssel &lt;sk13@mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see <a href="http://sourceforge.net/projects/jcf/">http://sourceforge.net/projects/jcf/</a></li>
</ul>
<li>Carmen Bastiaans &lt;cbastiaa#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>
<li>Tomas Gustavsson &lt;tomasmg#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>
<li>Eugen Kuleshov &lt;euxx#064;hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.</li>
<li>Megan Woods &lt;meganwoods#064;sekurafile.com&gt; - initial implementation of ECIES.</li>
<li>Christian Geuer-Pollmann &lt;geuerp#064;apache.org&gt; - adding IV’s to the AESWrap implementations. Initial implementation of DESedeWrap.</li>
<li>Michael M#252;hle &lt;michael#064;mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>
<li>Michael Mansell &lt;me#064;michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.</li>
<li>Eike Recker &lt;eike.recker#064;gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.</li>
<li>Chris Southern &lt;CSouthern#064;baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.</li>
<li>Sidney Markowitz &lt;sidney#064;sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>
<li>Chris Kerr &lt;ckerr#064;filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.</li>
<li>Mike Bean &lt;mbean#064;lucenradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.</li>
<li>Martin Petraschek &lt;e9526225#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.</li>
<li>Jess Garms &lt;jgarsms#064;yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.</li>
<li>Mike Bremford &lt;mbmke#064;big.faceless.org&gt; - contributing the initial PKCS7 implementation.</li>
<li>Shankar Srinivasan &lt:ssr002#064;yahoo.com&gt; - S/Mime interoperability testing and debugging.</li>
<li>Stef Hoeben &lt;ilistestef#064;skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.</li>
<li>Klaudiusz Ciosk &lt;kciosk#064;max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.</li>
<li>Thomas Houtekier &lt;Thomas.Houtekier#064;tectrade.net&gt; - S/Mime testing and debugging. Interoperability with Biztalk.</li>
<li>Don Hillsberry &lt;hillsber#064;dialcorp.com&gt; - S/Mime testing and debugging.</li>
<li>Kazuo Furuya &lt;kfuruya#064;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.</li>
<li>Jason Novotny &lt;jdnovotny@lbl.gov&gt; - initial work on the openSSL PEM processing.</li>
<li>Joel Hockey &lt;joel.hockey@qsipayments.com&gt; - initial work on the openSSL PEM processing.</li>
<li>John Steenbruggen &lt;JohnS@geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
<li>Justin Chapweske &lt;justin@chapweske.com&gt; - ordering patch for Tiger message digest.</li>
<li>John Serock &lt;jserock@#064;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>
<li>Sascha Weinreuter &lt;Sascha.Weinreuter@#064;cit.de&gt; - fixed SMIME saveChanges() bug.</li>
<li>Andre Wehnert &lt;aw5@#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
<li>Luigi Lo Iacono &lt;lo_iacono@nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
<li>Tim Sakach &lt;tsakach@#064;certivo.net&gt; - SMIME v2 compatibility patches.</li>
<li>Marcus Povey &lt;mpovey@#064;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.</li>
<li>Sebastian Clauss &lt;sc2@#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>
<li>Joern von Kattchee &lt;J.Kattchee@seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
<li>Brett Neumeier &lt;random@#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of URIbase64.</li>
<li>Graham Coles &lt;graham.coles@#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
<li>J&ouml;rn Schwarze &lt;JSchwarze@ulc.de&gt; - Locale fix for the clean room JCE.</li>
<li>Rick Zeldes &lt;rick.zeldes@#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.</li>
<li>Julian Morrison &lt;julian@extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
<li>Elmar Sonnenschein &lt;eso@#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
<li>Bryan Lovquist &lt;bkl@#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
<li>Artem Portnoy &lt;Artem_Portnoy@ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
<li>Michael Hausler &lt;haeusler@#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
<li>Johan Seland &lt;johans@#064;netfonds.no&gt; - general toString for BigInteger class.</li>
<li>Johannes Nicolai &lt;johannes.nicolai@#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>
<li>Marc Doberva &lt;marc.doberva@#064;lex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
<li>Jan Dvorak &lt;jan.dvorak@#064;mathan.cz&gt; - initial implementation of the lightweight Null block cipher.</li>
<li>Joe Cohen &lt;jeohen@#064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in

---

Open Source Used In Crosswork Data Gateway 1.1.4 1520
In the latest release of Crosswork Data Gateway, Open Source components have been integrated to enhance functionality and security. Here are some of the key contributions and updates:

- **DERInputStream into what it should have been**

- **Chris Long** &lt;aclong@ece.cmu.edu&gt; - adding public key decoding to PEMReader.

- **Hes Siemelink** &lt;hes@email.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, setSize() fix for zero length messages in SMIMEMessage.

- **Stefan Puiu** &lt;stefanpuiu@#064yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

- **Kaiser Yang** &lt;kaiseryang@#064.yahoo.com&gt; - Finding BigInteger loop problem in prime generation.

- **Jiri Urbanec** &lt;jiri.urbanec@#064logicacmcg.com&gt; - patch to fix defect in DERBMPString.equals().

- **Justin Kolb** &lt;jkolb@#064pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

- **Ralf Hauser** &lt;ralfhauser@#064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

- **Michal Dvorak** &lt;M_Dvorak@#064transacttools.net&gt; - getNextUpdate patch for OCSP SingleResp.

- **Klaus Greve Fiorentini** &lt;Klaus@#064cqquad.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.

- **Olivier Refalo** &lt;Olivier_Refalo@#064fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.

- **Mariusz Bandola** &lt;mariusz.bandola@#064crypted.com.pl&gt; - patch to DERGeneralizedTime.

- **Brien Oberstein** &lt;brien.oberstein@transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUlit.

- **Ian Haywood** &lt;ian@#064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.

- **Jonathan Edwards** &lt;s34gull@#064mac.com&gt; - initial support for reading multiple rings from a PGP key file.

- **Andrew Thornton** &lt;andrew@#064caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

- **Gregor Leander** &lt;gl@#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

- **Antoon Bosselaers** &lt;Antoon.Bosselaers@#064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.

- **Peter Sylvester** &lt;Peter.Sylvester@#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

- **Doug** &lt;ummmm@#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

- **Francois Staes** &lt;fsstaes@#064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

- **W.R. Dittmer** &lt;wdittmer@#064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKKeyPair to fix nullpointer exception.

- **Perez Paz Luis Alberto** &lt;laperez@#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.

- **James Wright** &lt;James_Wright@#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStream.

- **Jim Ford** &lt;jim@#064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

- **Michael Hauser** &lt;hauser@#064ponton-consulting.de&gt; - extra aliases for provider.

- **Sai Pullabhotla** &lt;psai@#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
<li>Joseph Miller &lt;joseph&#064digiweb.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;xyz&#064sagemedenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen&#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun&#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pdudem&#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva&#064wedoconsulting.com&gt; - patch to fix overread issue in BCPGMInputStream.</li>
<li>Alpesh Parmar &lt;alps&#064064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jun Sun &lt;JSun&#064diversinet.com&gt; - patch to fix SigningKey in PGPSecretKey class, patch to hashedPackets in PGPSignatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug&#064064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt;mmundy1&#064umbc.edu&gt; - infinite loop prevention patch to PKCSS2ParametersGenerator.</li>
<li>Tom Cargill &lt;tcargill&#064064profcon.com&gt; - spelling patch in provider.</li>
<li>Breitenstrom Christian &lt;c.Breitenstrom&#064064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
<li>Nicola Scendoni &lt;nscendoni&#064064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Albers Parmar &lt;alps&#064064linuxmail.org&gt; - patch to add sorting to CertPath validation.</li>
<li>Matthew Mundy &lt;mmundy1&#064umbc.edu&gt; - "223" fix for BCPGMInputStream new packets.</li>
<li>Albert Moliner &lt;almoliner&#064evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;carlos&#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi&#064jav.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hahkala &lt;joni.hahkala&#064064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IfetAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org">EGEE project</a> for making the work available.</li>
<li>Rolf Schillinger &lt;rolf&#064wum-de.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey_Bahtin&#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
<li>Franch Leroy &lt;franck.leroy&#0644keynecit.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuniko Yamanaka &lt;ymnk&#0644jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
<li>Nicolay Bolshakov &lt;tyrex&#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer&#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell &lt;mitchell&#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow...
BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.
Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

- Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 7816-4 padding.
- Julien Pasquier &lt;julienpasquier@free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
- Matteo &lt;matartuso#064libero.it&gt; - sequence patch to ASN1Dump.
- Andrew Paterson &lt;andrew.paterson@064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.

- Vladimir Molotkov &lt;vladimir.n.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.
- Florin Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.
- Pavel Vassiliev &lt;paulvas@064gmail.com&gt; - Initial GOST28147Mac implementation.
- Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
- Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@064gmail.com&gt; - fix to fix parsing issue with OpenSSL PEM based certificate requests.
- Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.
- Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.
- David M. Lee &lt;dmlee@064crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
- Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- tu-vi cung &lt;t2cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.
- Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.
- David M. Lee &lt;dmlee@064crossroads.com&gt; - implementation assistance with streaming CMS classes.
- Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.
- Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.
- Remi Blancher &lt;Remi Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Brian O'Rourke &lt;brainorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.
- Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
- David Josse &lt;david.josse@064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.
- Kishimoto Kazuhiro &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
- Lawrence Tan &lt;lwrnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in
Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.


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

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

Karsten Ohme &lt;Karsten.Ohme&#064online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;Carlos.&064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

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

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

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

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

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

Pasi Eronen &lt;Pasi.Eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin H&auml;berling &lt;arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;m.schilder&#06464google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch &lt;xavier&#064brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews&#064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC,
and Noekeon. XTEA enhancements.

- Frank Cornelis &lt;info#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

- Rui Joaquim &lt;rjaoquim#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

- David Stacey &lt;DStacey#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

- Martijn Brinkers &lt;list#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

- Julius Davies &lt;juliusdavies#064gmail.com&gt; - additional modes and algorithm support in PEMReader.

- Matthias &lt;g#064rtnrer.de&gt; - GnuPG compatibility changes for PBFileProcessor.

- Olga Kaulmlthler &lt;olga.kaethler#064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

- Germano Rizzo &lt;germano.rizzo#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

- Nauacute;ria Mar&amp;iacute; &lt;numaa#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

- Michael Samblanet &lt;mike#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

- Mike StJohns &lt;mtjohns#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

- Ramon Keller &lt;ramon.keller#064gmx.ch&gt; - patch to deal with new revocations return from other CRL in X509V2CRLGenerator.

- Mark Nelson &lt;mark#064nbc.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

- Eugene Golushkov &lt;eugene_eff#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

- Julien Pasquier &lt;jlpiusquier#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

- Peter Knopp &lt;pknopp#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.

- Jakub Gwozdz &lt;gwozdziu#064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

- Bartosz Malkowski &lt;bmalkow#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPMac.

- Tal Yacobi &lt;tal.yacobi#octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

- Massimiliano Ziccardi &lt;massimiliano.ziccardi#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

- Andrey Pavlenko &lt;andrey.a.pavlenko#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

- J Ross Nicoll &lt;jrn#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN1 library.

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

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

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

- Patrick Peck &lt;peck#064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
<li>Michael LeMay &lt;lemaymd@lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre &lt;ale@064freebsd.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Ian Larrañaga &lt;ilarra@064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.</li>
<li>Alex Dupre &lt;ale@064posixscience.com&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Alex Dupre &lt;ale@064posixscience.com&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Robert J. Moore &lt;RobertJ.Moore@064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;ttobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;poucycastle_pfitz@064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; - subjectAlternativeName fix for x.509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henrique &lt;pmahenriques@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DEREternal, DNS performance fix for SMIME APL.</li>
<li>Richard Farr &lt;rfarr.se@064gmail.com&gt; - initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani@064sogei.it&gt; - patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;r737lundgren@064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petra Kadlec &lt;mormegil@064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_a@064gm.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hrawat@064yahoo.com&gt; - fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;rlindemann@064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Christos Artafinov &lt;alexart.home@064gmail.com&gt; - name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons &lt;mlyons@064layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSESE EC naming conventions.</li>
<li>Chris Cole &lt;chris_hcole@064yahoo.com&gt; - identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomaz Krivanek &lt;tom@064attack.cz&gt; - added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;enfau@064it-online.de&gt; - correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;ttrevor@064cryptography.com&gt; - addition of constant time equals to avoid possible timing attacks.</li>
Markus Kiläring &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo@064btiinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;i.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;marco@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfmalfl@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;j.Sikocinski@064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten@064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;willden@064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

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

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

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

Andy Neilson &lt;Andy.Neilson@064quest.com&gt; a further patches to deal with multiple providers and PEMReader.
Ted Shaw &lt;xiao.xj&#064gmail.com&gt; patch to MiscPEMGenerator for handling new
PKCS10CertificateRequests.</li>
<li>Eleriseth &lt;Eleriseth&#064WPECGLtYbVi8RI6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms&gt; speed up for
SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root &lt;kenny&#064the-b.org&gt; patch for issuerAltName, subjectAltName support in
X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes &lt;maarten.bodewes&#064gmail.com&gt; initial implementation of HKDF and NIST SP
800-108 MAC based KDF functions.</li>
<li>Philip Clay &lt;pilf_b&#064gahoo.com&gt; Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom &lt;bdc&#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher
classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1
SecretKeyFactory.</li>
<li>Samuel Lid&eacute;n Borell &lt;samuel&#064primekey.se&gt; patch to add DSTU-4145 to
DefaultSignatureAlgorithmFinder</li>
<li>Brian Carlstrom &lt;bdc&#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher
classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1
SecretKeyFactory.</li>
<li>Sergio Demian Lerner &lt;sergiolerner&#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner
signature verification.</li>
<li>Tim Whittington &lt;Tim.Whittington&#064orionhealth.com&gt; patch to remove extra init call in CMac,
additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for
IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha,
reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to
Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD
cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes,
cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on
EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code
quality work.</li>
<li>Marcus Lundblad &lt;marcus.lundblad&#064primekey.se&gt; patch for working arnound JDK jarsigner TSP
bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time
stamp token generation.</li>
<li>Andrey Zhozhin &lt;zhozhin&#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>
<li>Sergey Tiunov &lt;t5555d&#064gmail.com&gt; initial cut of DVCS classes.</li>
<li>Damian Kolasa &lt;fatfredyy&#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.</li>
<li>Ash Hughes &lt;ashley.hughes&#064blueyonder.co.uk&gt; patches for supporting
PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for
PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
<li>Daniil Ivanov &lt;daniil.ivanov&#064gmail.com&gt; addition of provider support for GOST HMAC
SecretKeyFactory.\</li>
<li>Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis&#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>Axel VDB &lt;axel-vdb&#064064riseup.net&gt; initial implementation of Shacal2.</li>
<li>Roberto Tyler &lt;&gt; further work on completing gradle build.</li>
<li>Waldemar Dick &lt;wdick&#064devmve.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward&#064pdf1abs.com&gt; code improvements to ASN1Boolean.</li>
<li>Alex Klyubin &lt;klyubin&#064064google.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;gsoc.student&#064064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter&#064064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller&#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli &lt;ehli&#064064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>David Heldt &lt;David.Heldt&#064cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bouncycastle&#064064traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;aarts&#064064iscure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sriram &lt;mail_kb&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze &lt;marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaefer &lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.</li>
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 BPE mac/key generator builders.</li>
<li>Tobias Wich &lt;tobias.wich&#064064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens &lt;hauke&#064064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman &lt;dmz&#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jkapitza&#064schwarz-alliance.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund &lt;johan&#064064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb&#064064riseup.net&gt; Contributions to BCrypt/OpenBSDCrypt, original version of Blake2Digest.</li>
<li>Derek Atkins &lt;derek&#064064htfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto&#064064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>Pierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot &lt;thomas.belot+BC&#064064gmail.com&gt; Initial CertPathLoopTest for demonstrating stack overflow issue.</li>
Rich DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Björn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schürmann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPrivateKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael &lt;https://github.com/MSKnete&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Tobias Wagner &lt;https://github.com/tobias.wagner&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro &lt;https://github.com/sgiro64&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PKB.java, check for salt in PGPSecretKey that require it.

bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

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

Jan Willem Janssen &lt;https://github.com/jw.janssen@bouncycastle&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;https://github.com/sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;https://github.com/kai.kramer64@gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;https://github.com/benoit.charles&gt; Fixed bugs in TlsUtilities read methods [#BJA-592].

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

Andréacuté Berenguel &lt;https://github.com/aberen.gueil&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

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

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

William Glanton &lt;https://github.com/wglanton77&gt; Fixed bug in Poly1305 [#BJA-620].

jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle &lt;https://github.com/jnaegle64&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;https://github.com/girazoki&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.
<li>Joerg Senekowitsch &lt;joerg.senekowitsch@064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>

Alexandr Krivoshta &lt;wipe@064ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storoj72@064gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu@064samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis@064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.

didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.

Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk &lt;storoj72@064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser@064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;scott@064bitconsulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYP7800DRBG.

chris mccown &lt;0xchrismccown@064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin Lunkeit, Michael Taupenhahn &lt;and&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/cki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.

Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with
PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

- Nick of Nexxar &lt;https://github.com/nros&gt;; update to OpenPGP package to handle a broader range of EC curves.
- catbref &lt;https://github.com/catbref&gt;; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
- gerlion &lt;https://github.com/gerlion&gt;; detection of concurrency issue with pre-1.60 EC math library.
- gfrieu &lt;https://github.com/gfrieu#064gmail.com&gt;; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.
- MTG &lt;https://github.com/mtgag&gt;; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
- Nick of Nexxar &lt;https://github.com/nros&gt;; update to OpenPGP package to handle a broader range of EC curves.
- catbref &lt;https://github.com/catbref&gt;; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
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* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/boot/test/web/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/boot/test/context/DefaultTestExecutionListenersPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/boot/test/web/client/LocalHostUriTemplateHandler.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/boot/test/mock/mockito/SpyBeans.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/boot/test/json/JsonbTester.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/boot/test/mock/mockito/MockReset.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/boot/test/context/ImportsContextCustomizer.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/boot/test/context/ImportsContextCustomizerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/bootstrap/TestRestTemplateContextCustomizerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/bootstrap/SpringBootContextLoader.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/bootstrap/context/SpringBootContextLoader.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources-jar/org/springframework/bootstrap/context/context/SpringBootContextLoader.java
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* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources.jar/org/springframework/boot/test/mock/mockito/MockitoContextCustomizerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources.jar/org/springframework/boot/test/context/assertj/AssertProviderApplicationContextInvocationHandler.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources.jar/org/springframework/boot/test/context/runner/WebApplicationContextRunner.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources.jar/org/springframework/boot/test/context/TestConfiguration.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources.jar/org/springframework/boot/test/context/filter/ExcludeFilterContextCustomizerFactory.java

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* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources.jar/org/springframework/boot/test/context/assertj/AssertProviderApplicationContextInvocationHandler.java
* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources.jar/org/springframework/boot/test/context/runner/WebApplicationContextRunner.java
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* /opt/ws_local/PERMITS_SQL/1014221175_1591384614.1/0/spring-boot-test-2-1-10-release-sources.jar/org/springframework/boot/test/context/filter/ExcludeFilterContextCustomizerFactory.java
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* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyChannelProvider.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyClientStream.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyWritableBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/GrpcSslContexts.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyServerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyWritableBufferAllocator.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyTlsUtil.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/ProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/SendPingCommand.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/ProtocolNegotiator.java
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* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/ForcefulCloseCommand.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/AbstractHttp2Headers.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/GrpcHttp2OutboundHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/GrpcHttp2ConnectionHandler.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/StreamIdHolder.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyHandlerSettings.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/ClientTransportLifecycleManager.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/InternalHandlerSettings.java
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  jar/io/grpc/netty/KeepAliveEnforcer.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-
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* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/InternalWriteBufferingAndExceptionHandlerUtils.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/WriteBufferingAndExceptionHandler.java

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* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-
jar/io/grpc/netty/NettyServerTransport.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyReadableBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/CancelClientStreamCommand.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/SendGrpcFrameCommand.java
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* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyClientTransport.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyServer.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NettyServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/CreateStreamCommand.java
* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources-jar/io/grpc/netty/NegotiationType.java

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1.178 grpc-stub 1.24.1

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* /opt/ws_local/PERMITS_SQL/1013966571_1591363957.14/0/grpc-stub-1-24-1-sources-jar/io/grpc/stub/ServerCalls.java
* /opt/ws_local/PERMITS_SQL/1013966571_1591363957.14/0/grpc-stub-1-24-1-sources-jar/io/grpc/stub/MetadataUtils.java
* /opt/ws_local/PERMITS_SQL/1013966571_1591363957.14/0/grpc-stub-1-24-1-sources-jar/io/grpc/stub/ClientCalls.java
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* /opt/ws_local/PERMITS_SQL/1013966571_1591363957.14/0/grpc-stub-1-24-1-sources-jar/io/grpc/stub/ClientResponseObserver.java
* /opt/ws_local/PERMITS_SQL/1013966571_1591363957.14/0/grpc-stub-1-24-1-sources-jar/io/grpc/stub/ServerCallStreamObserver.java
* /opt/ws_local/PERMITS_SQL/1013966571_1591363957.14/0/grpc-stub-1-24-1-sources-jar/io/grpc/stub/CallStreamObserver.java

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* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/GrpcSslContexts.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyChannelProvider.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyWritableBuffer.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/GrpcSslContexts.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyChannelProvider.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyWritableBuffer.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyChannelProvider.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyWritableBuffer.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyChannelProvider.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyWritableBuffer.java

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* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-
jar/io/grpc/netty/InternalWriteBufferingAndExceptionHandlerUtils.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-
jar/io/grpc/netty/InternalProtocolNegotiators.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-
jar/io/grpc/netty/InternalProtocolNegotiationEvent.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-
jar/io/grpc/netty/InternalProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-
jar/io/grpc/netty/WriteBufferingAndExceptionHandler.java

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* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyHandlerSettings.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/InternalNettyChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/InternalHandlerSettings.java
* /opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/GrpcHttp2OutboundHeaders.java
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  */opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyServerTransport.java
  */opt/ws_local/PERMITS_SQL/1013966575_1591898015.88/0/grpc-netty-1-24-1-sources-jar/io/grpc/netty/NettyChannelBuilder.java
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1.181 libicu 60.2 3ubuntu3

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<title>ICU License - moved to LICENSE</title>
</head>
<body BGCOLOR="#ffffff">
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</body>
</html>
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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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,-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 $@ $<
%.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
%: $< $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$< $(GEN_DEPS.c) $<
| sed \"s/([^\n])\ola : /\1.o $< : /g\" > $@;\n
[-s $< ] || rm -f $@"

%.: $< $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$< $(GEN_DEPS.cc) $<
| sed \"s/([^\n])\ola : /\1.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,-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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**1.185 iconv 2.27 3ubuntu1**

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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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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.]

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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
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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
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changes in the actual functions of the Library.) The hope is that this
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table of data to be supplied by an application program that uses
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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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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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 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.

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

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

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

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1.186 polkit 0.105 20ubuntu0.18.04.5

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1.187 grpc-stub 1.7.0

1.188 spring-boot-starter 2.1.9
1.188.1 Available under license :
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Found in path(s):

1.189 feign-jackson 10.4.0
1.189.1 Available under license :

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 *
1.190 python-defaults 2.7.15~rc1-1

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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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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dh_python2, pycompile, pyclean and debpython module:
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1.91 hcl 1.0.0

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1.194 apache-http-client 4.4.1

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1.205 golang-protobuf-extensions 1.0.1

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1.206 yang-parser-impl 1.2.3

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  jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
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1.217 sshpass 1.06 1

1.218 byte-buddy-agent 1.9.16
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* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/Utils.java
* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/SendResponseHeadersCommand.java
* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/NegotiationType.java
* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/NettyClientStream.java
* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/NettyClientHandler.java
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* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/NettyServerStream.java
* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/NettyServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/NettyServerTransport.java
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jar/io/grpc/netty/InternalNettyServerBuilder.java
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* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/ProtocolNegotiators.java
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* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/NettyWritableBufferAllocator.java
* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/CancelServerStreamCommand.java
* /opt/ws_local/PERMITS_SQL/1014221947_1591365907.69/0/grpc-netty-1-9-0-sources-jar/io/grpc/netty/SendPingCommand.java
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1.221 spring-commons-logging-bridge

5.1.11.RELEASE

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1.223 core-module 1.2.3

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jar/org/springframework/transaction/interceptor/TransactionalProxy.java
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  jar/org/awaitility/reflect/FieldNameMatcherStrategy.java
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1.234 commons-validator 1.6

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2.1.10.RELEASE

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1.236 antlr 4.5.1

1.237 netty-handler-proxy 4.1.39

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package org.springframework.orm.jpa.domain;

import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name="DRIVERS_LICENSE")
public class DriversLicense {

@Id
private int id;

private String serial_number;

protected DriversLicense() {
}

public DriversLicense(String serialNumber) {
this.serial_number = serialNumber;
}

public String getSerialNumber() {
return serial_number;
}

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD//EN" "https://hibernate.org/dtd/hibernate-mapping-3.0.dtd">
<hibernate-mapping auto-import="true" default-lazy="false">
<class name="org.springframework.test.context.junit4.orm.domain.DriversLicense" table="drivers_license">
  <id name="id" column="id">
    <generator class="identity" />
  </id>
  <property name="number" column="license_number" />
</class>
</hibernate-mapping>
package org.springframework.test.context.junit4.orm.domain;

/**
 * DriversLicense POJO.
 * @author Sam Brannen
 * @since 3.0
 */
public class DriversLicense {

    private Long id;

    private Long number;

    public DriversLicense() {
    }

    public DriversLicense(Long number) {
        this(null, number);
    }

    public DriversLicense(Long id, Long number) {
        this.id = id;
        this.number = number;
    }

    public Long getId() {
        return this.id;
    }

    protected void setId(Long id) {
    }
}
this.id = id;
}

public Long getNumber() {
    return this.number;
}

public void setNumber(Long number) {
    this.number = number;
}

}
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1.265 opencensus-api 0.21.0

1.266 apache-httpclient 4.5.10

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<li>W.R. Dittmer &lt;wdittmer#064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.\</li>
<li>Perez Paz Luis Alberto &lt;laperez#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.\</li>
<li>James Wright &lt;James_Wright#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.\</li>
<li>Jim Ford &lt;jim#064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding
secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hausler &lt;haustler#064ponton-consulting.de&gt; - extra aliases for provider.</li>
<li>Sai Pullabhotla &lt;tsai#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller &lt;joseph#064digieweb.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;xyz#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pdukem#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva#064wedoconsulting.com&gt; - patch to fix overread issue in BCPPublicStream.</li>
<li>Alpesh Parmar &lt;alps#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jgengelbach#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt:mmundy1#064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>
<li>Tom Cargill &lt;tcargill#064profcon.com&gt; - spelling patch in provider.</li>
<li>Breitenstrom Christian &lt;C.Breitenstrom#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
<li>Zanotti Mirko &lt;zanotti#064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Nicola Scendoni &lt;nscendoni#064sagezähl.de&gt; - patch to add sorting to CertPath validation.</li>
<li>Tom Cargill &lt;cargill#profcon.com&gt; - spelling patch in provider.</li>
<li>Joni Hahkala &lt;joni.hahkala#cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org">EGEE project</a> for making the work available.</li>
<li>Rolf Schillinger &lt;rolf#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey_Bahtin#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
<li>Franck Leroy &lt;Franck.Leroy#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhiko Yamanaka &lt;ymnk#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
<li>Nickolay Bolshackov &lt;tyrex@reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer@604tiotenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell &lt;mitchell@064interest.com&gt; - patch for stateful path validator fix. Path to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.</li>

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>
<li>Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 7816-4 padding.</li>
<li>Julien Pasquier &lt;juilenpasquier@064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo &lt;matartuso@064libero.it&gt; - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson &lt;andrew.paterson@064burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov &lt;vladimir.n.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.</li>
<li>Florin Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassilev &lt;pv@064gmail.com&gt; - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-3DES encryption for RSAPrivate keys to PEMWriter.</li>
<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch &lt;Arndt.Hasch@064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung &lt;t2cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>David M. Lee &lt;dmlee@064Crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>
<li>Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.</li>
<li>Remi Blancher &lt;Remi.Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O'Rourke &lt;brianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-3DES 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>
David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

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

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

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

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

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

Jörg Eichhorn &lt;eichhorn@#064ponton-consulting.de&gt; - Patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@#064t-online.de&gt; - Initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name types for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CerticatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@#064tradise.com&gt; - Patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

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

Stefan Neuszat Guilhen &lt;snueuszat@#064gmail.com&gt; - Initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

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

Georg Lippold &lt;georg.lippold@#064gmx.de&gt; - Initial implementation of NaccacheStern cipher.

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

Pasi Eronen &lt;Pasi.Eronen@#064nokia.com&gt; - Extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@#064gmail.com&gt; - Support for tags > 30 in ASN.1 parsing.

Armin H&auml;auuml;berling &lt;arminha@student.ethz.ch&gt; - First cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder@#064google.com&gt; - Main set of test vectors for Bleichenbacher's forgery.
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attack.</li>
<li>Xavier Le Vourch &lt;xavier@064britannysoftware.com&gt; - general code clean ups.</li>
<li>Erik Tews &lt;e_tews@064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding</li>
<li>Thomas Dixon &lt;reikomusha@064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;rjoaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGP SecretKeyRing.</li>
<li>Martijn Brinkers &lt;list@064mimt.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juilusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.</li>
<li>Matthias &lt;g@064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&amp;amp;uml;hler &lt;olga.kaehler@064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&amp;uuml;ria M&amp;iacute; &lt;numaa@064hotmail.com&gt; - patch for alternate data type recognition in CMS SignedDataParser.</li>
<li>Janis Schuller &lt;js@064ti.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;mike@064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller &lt;ramon.keller@064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov &lt;eugene_gff@064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp &lt;pknopp@064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozdz &lt;jgwozdziu@064rpg.pl&gt; - addition of getTs() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski &lt;bmalkow@064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi &lt;tal.yacobi@064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
<li>J Ross Nicoll &lt;jrn@064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li>
<li>Gabriele Contini &lt;gcontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.
<li>Roelof Naude &lt;roelof.naude@epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST. </li>

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

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

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

<li>Michael Schoene &lt;michael@#064sigid-grid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>

<li>Ion Larrañaga &lt;ilarra@#064s21sec.com&gt; - fix to default partial packet generation in BCPlOutputStream.</li>

<li>Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>

<li>Stefan Meyer &lt;stefan.meyer@#064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>

<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>

<li>Rui Hodai &lt;ru@#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>

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

<li>Torbjorn Svensson &lt;torbe79@#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>

<li>Paul FitzPatrick &lt;bounceycastle_pfitz@#064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>

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

<li>Cagdas Cirit &lt;cgadascirit@#064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.</li>

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

<li>Pedro Henrques &lt;pmahenriques@#064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>

<li>Lothar Kimminger &lt;lo@#064kimminger.de&gt; - verbose mode for ASN1Dump, support for DERExternal.</li>

<li>Richard Farr &lt;rfarr.se@#064gmail.com&gt; - initial SRP-6a implementation.</li>

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

<li>Elisabetta Romani &lt;elromani@#064sogei.it&gt; - patch for recognising multiple counter signatures.</li>

<li>Robin Lundgren &lt;r737lundgren@#064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.</li>

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

<li>Andreas Antener &lt;antener_a@#064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.</li>

<li>Harendra Rawat &lt;hrawat@#064yahoo.com&gt; - fix for BERConstructedOctetString.</li>

<li>Rolf Lindemann &lt;rindemann@#064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [BMA-42].</li>

<li>Alex Artamonov &lt;alexart.home@#064gmail.com&gt; - name look up patch for GOST-2001 parameters.</li>

<li>Mike Lyons &lt;mlyons@#064layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>

<li>Chris Cole &lt;chris_h_cole@#064yahoo.com&gt; - identified a problem handling null passwords when loading a BKS keystore.</li>

<li>Tomas Krivanek &lt;tom@#064attack.cz&gt; - added checking of Sender header to SignedMailValidator. 

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Michael &lt;emfau@online.de&gt; correction of field error in getResponse method in CertRepMessage.  
Trevor Perrin &lt;trevor@cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.  
Markus Kilärs &lt;markus@primekey.se&gt; several enhancements to TimeStampResponseGenerator.  
Dario Novakovic &lt;darionis@yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.  
Michael Smith &lt;msmith@cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.  
Andrea Zilio &lt;andrea.zilio@gmail.com&gt; fix for PEM password encryption of private keys.  
Alex Birkett &lt;alex@birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].  
Wayne Grant &lt;waynedgrant@gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.  
Frank Cornelis &lt;info@frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.  
Jan Ditthener &lt;jan@4d4ditthener.info&gt; addHeader patch for SMIME generator.  
Bob McGowan &lt;boab.mcgowan@64btinternet.com&gt; patch to support different object and mgf digestes in PSS signing.  
Ivo Matheis &lt;i.matheis@seeburger.de&gt; fix to padding verification in ISO-9796-1.  
Marco Sandrini &lt;nessche@64gmail.com&gt; patch to add IV to ISO9797Alg3Mac.  
Alf Malf &lt;alfilmalf@64hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.  
Alfonso Massa &lt;alfonso.massa@64insiel.it&gt; contributions to CMS time stamp classes.  
Giacomo Boccardo &lt;gboccardo@64unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.  
Arnis Tartu &lt;arnis@64ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.  
Janusz Sikociski &lt;J.Sikocinski@64gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.  
Juri Hudolejev &lt;jhudolejev@64gmail.com&gt; JavaDoc fix to CMSSignedDataParser.  
Liane Velten &lt;lianen.velten@64hjp-consulting.com&gt; fine tuning of code for DHParameters validation.  
Shawn Willden &lt;swillden@64google.com&gt; additional functionality to PGPPKeyRing.  
Atanas Krachev &lt;akrachev@64gmail.com&gt; added support for revocation signatures in OpenPGP.  
B Michael Laiking &lt;mickael.laiking@64keynectis.com&gt; initial cut of EAC classes.  
Tim Buktu &lt;tibuku@64hotmail.com&gt; Initial implementation of NTRU signing and encryption.  
Bernd &lt;rbernd@64gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.  
Steing Inge Morisbak &lt;stein.inge.morisbak@64BEKK.no&gt; Test code for lower case Hex data in PEM headers.  
Andreas Schmid &lt;andreas.schmid@64tngtech.com&gt; Additional expiry time check in PGPPublicKeys.  
Phil Steitz &lt;phil.steitz@64gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.  
Ignat Korchagin &lt;ignat.korchagin@64gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.  
Petar Petrov &lt;p.petrov@bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.  
Daniel Fitzpatrick &lt;daniel.f.nwr@64gmail.com&gt; Initial implementation of ephemeral key support for
IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.<br>

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

Ted Shaw &lt;xiao.xj@064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.<br>

Eleriseth &lt;Eleriseth@064WPECGLtYbVi8Rl6Y7VzI2Lvd2EUVW99v3yNV3lWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.<br>

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

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

Philip Clay &lt;pilf_b@064gyahoo.com&gt; Initial implementation of J-PAKE.<br>

Brian Carlstrom &lt;bcde@064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.<br>

Samuel Lidè&eacute;n Borell &lt;samuel@064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.<br>

Sergio Demian Lerner &lt;sergiolerner@064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.<br>

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

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

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

Sergey Tinnov &lt;t5555d@064gmail.com&gt; initial cut of DVCS classes.<br>

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

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

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

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

Matti Aarnio &lt;matti.aarnio@064mehics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.<br>

Babak Najafi &lt;bnajafi@064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.<br>

Eric M&uuml;ller &lt;eric.mueller@064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.
<li>Mathias Herberts &lt;Mathias.Herberts@gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov@gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86@gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrhc@gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis@64ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB &lt;axel-vdb@064riseup.net&gt; initial implementation of Shacal2.</li>
<li>Roberto Tyley &lt;&gt; further work on completing gradle build.</li>
<li>Waldemar Dick &lt;wdxk@x500.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward@064pdflabs.com&gt; code improvements to ASN1Boolean.</li>
<li>Alex Klyubin &lt;klyubin@064google.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;gsoc.student@gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter@iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller@gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehl&lt;ehl@064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt&lt;Daniel.Heldt@064cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bouncycastle@064traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts&lt;maartens@064isecure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer&lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sirram&lt;mail_kb@yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze&lt;marco@064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaefer&lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.</li>
<li>dstutz&lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich&lt;tobias.wich@064ccssec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens&lt;hauke@064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman&lt;dmz@064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza&lt;lj.kapitza@064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund&lt;johan@064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn&lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb@064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2Digest.</li>
<li>Derek Atkins &lt;derek@064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto@064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.
- Thomas Belot &lt;thomas.belot+BC@#064gmail.com&gt; Initial CertPathLoopTest for demonstrating stack overflow issue.
- Richard DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Björn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Schumann &lt;https://github.com/dschuermann&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Thomas Belot &lt;thomas.belot+BC@#064gmail.com&gt; Initial CertPathLoopTest for demonstrating stack overflow issue.
- Michael &lt;MSKnete#064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys.
- Tobias Wagner &lt;#064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
- Sergio Giro &lt;sgiro#064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
- Bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
- Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.
- Jan Willem Janssen &lt;j.w.janssen+bnycycastle#064ixtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
- Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.
- Kai Kramer &lt;kai.kramer#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
- Benoit Charles &lt;benoit.charles@#064opentrust.com&gt; Fix for IES data length check on decryption.
- Niko &lt;nfin95#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.
- akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.
- Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukasz Deputat &lt;lukasz.deputat#064gmail.com&gt; Fixed bugs in TLsUtils read methods [#BJA-592].
- Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGObjectFactory to handle stream packets at start of iterated data.
- Andr&eacute;ateur; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.
- Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.
- William Glanton &lt;wglanton77#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].
- jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegle &lt;jnaegle@#064gierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.
- The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.
- Gorka Irazoqui &lt;girazoki@#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-
center.intel.com/; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
<li>Alexandr Krivoshta &lt;wipe@ya.ru&gt; N4 calculation fix to GOFB mode.</li>
<li>Artem Storozhuk &lt;storozh2@gmail.com&gt; N4 calculation fix to GOFB mode.</li>
<li>Na Yu &lt;na.yu@samsung.com&gt; Constructor patches to CMC PKIData.</li>
<li>Evangelos Karatsiolis &lt;ekaratsiolis@064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
<li>Artem Storozhuk &lt;storozh2@gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>
<li>Andreas Glaser &lt;andreas.glaser@064gi.de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.</li>
<li>codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.</li>
<li>Scott Woodward &lt;scott@064bitconsulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Straw &lt;https://github.com/somarcet&gt; fix for off by one error in SCRYPT bounds checking.</li>
<li>chris mccown &lt;0xchrismccown@064gmail.com&gt; identification of serialisation issue with XMSS/XMSS-MT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patch for SM2 decrypt.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/fl00ey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/ekei&gt; Fix to make PGPUUtil.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.
Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.

catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.

grief &lt;griefe#064@gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;up.gadermaier#064@gmail.com&gt; initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code.

Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.

Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode.


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jar/google/api/billing.proto
* /opt/ws_local/PERMITS_SQL/1014221108_1591363085.63/0/proto-google-common-protos-1-16-0-sources-jar/google/api/endpoint.proto
* /opt/ws_local/PERMITS_SQL/1014221108_1591363085.63/0/proto-google-common-protos-1-16-0-sources-jar/google/api/auth.proto
* /opt/ws_local/PERMITS_SQL/1014221108_1591363085.63/0/proto-google-common-protos-1-16-0-sources-jar/google/type/date.proto
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* /opt/ws_local/PERMITS_SQL/1014221108_1591363085.63/0/proto-google-common-protos-1-16-0-sources-jar/google/api/field_behavior.proto

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* /opt/ws_local/PERMITS_SQL/1014221203_1591383914.51/0/slf4j-log4j12-1-7-29-sources-jar/org/slf4j/impl/Log4jLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221203_1591383914.51/0/slf4j-log4j12-1-7-29-sources-jar/org/slf4j/impl/Log4jMDCAdapter.java
* /opt/ws_local/PERMITS_SQL/1014221203_1591383914.51/0/slf4j-log4j12-1-7-29-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
1.285 go-dockerclient 1.12.10

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1.287 netty-codec 4.1.39

1.288 yoga-core 1.5.0

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1.289 apktools 2.10.4-r2

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package scala.build
import sbt._, Keys._, plugins._

object License extends AutoPlugin {
  val licenseMapping = settingKey[Seq[(File, String)]]("LICENSE/NOTICE file mappings")

  override val requires = JvmPlugin
  override val trigger = AllRequirements

  override def projectSettings: Seq[Def.Setting[_]] =
    List(packageSrc, packageBin, packageDoc)
      .map(pkg => mappings in (Compile, pkg) ++= licenseMapping.value)

  override def buildSettings: Seq[Def.Setting[_]] = Seq(
    licenseMapping := List("LICENSE", "NOTICE").map(fn => (baseDirectory.value / fn) -> fn)
  )
}

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function:  ` { case (a, b) => ... }`
val x: ((Int, Int) => Int) = (((a, b)) => a)

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function:  ` { case (param1, param2) => ... }`
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function:  ` { case (param1, ..., param3) => ... }`
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

three errors found

Scala includes the Tools Tooltip library:

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    val x: ((Int, Int) => Int) = (((a, b)) => a)
    val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
    val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
}

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1.305 google-android-annotations-library

4.1.1.4

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1.306 jackson-jaxrs-json-provider 2.9.9

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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
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It is currently developed by a community of developers, as well as supported
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18.04+20190718

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1.308 adduser 3.116ubuntu1

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* /opt/ws_local/PERMITS_SQL/1014221969_1591381028.39/0/powermock-reflect-1-6-1-sources-jar/org/powermock/reflect/exceptions/FieldNotFoundException.java
* /opt/ws_local/PERMITS_SQL/1014221969_1591381028.39/0/powermock-reflect-1-6-1-sources-jar/org/powermock/reflect/internal/matcherstrategies/FieldAnnotationMatcherStrategy.java
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ar/jnr/unixsocket/BindHandler.java
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* /opt/ws_local/PERMITS_SQL/1014297050_1591897322.69/0/jnr-unixsocket-0-18-sources.jar/jnr/unixsocket/UnixSocket.java

1.313 netty-codec-socks 4.1.39

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1008568051_1591898006.04/0/netty-codec-socks-4-1-39-final-sources-
  jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
* /opt/ws_local/PERMITS_SQL/1008568051_1591898006.04/0/netty-codec-socks-4-1-39-final-sources-
  jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
* /opt/ws_local/PERMITS_SQL/1008568051_1591898006.04/0/netty-codec-socks-4-1-39-final-sources-
  jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java

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  jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /opt/ws_local/PERMITS_SQL/1008568051_1591898006.04/0/netty-codec-socks-4-1-39-final-sources-
  jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /opt/ws_local/PERMITS_SQL/1008568051_1591898006.04/0/netty-codec-socks-4-1-39-final-sources-
  jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
* /opt/ws_local/PERMITS_SQL/1008568051_1591898006.04/0/netty-codec-socks-4-1-39-final-sources-
  jar/io/netty/handler/codec/socksx/v5/package-info.java
* /opt/ws_local/PERMITS_SQL/1008568051_1591898006.04/0/netty-codec-socks-4-1-39-final-sources-
1.314 libvmtools 10.3.10 1~ubuntu0.18.04.1

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Open-vm-tools v10.3.0

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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Last revised by Reagle $Date: 2005-07-19 12:33:09 -0400 (Tue, 19 Jul 2005) $

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1.328 antlr-runtime 4.7.1

1.329 jackson-module-paranamer 2.10.0

1.329.1 Available under license :

# 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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1.330 dialog 1.3-20171209 1

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1.341 python 2.7.16-r1

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

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

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

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

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* /opt/ws_local/PERMITS_SQL/1014221192_1591384644.9/0/spring-cloud-context-2-1-4-release-sources-jar/org/springframework/cloud/bootstrap/BootstrapImportSelector.java
* /opt/ws_local/PERMITS_SQL/1014221192_1591384644.9/0/spring-cloud-context-2-1-4-release-sources-jar/org/springframework/cloud/context/encrypt/KeyFormatException.java
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1.344 commons-logg 1.2

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1.345 okio 1.17.2

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* /opt/ws_local/PERMITS_SQL/1014221201_1591897829.68/0/okio-1-17-2-sources-jar/okio/Source.java
* /opt/ws_local/PERMITS_SQL/1014221201_1591897829.68/0/okio-1-17-2-sources-jar/okio/InflaterSource.java
* /opt/ws_local/PERMITS_SQL/1014221201_1591897829.68/0/okio-1-17-2-sources-jar/okio/DeflaterSink.java
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* /opt/ws_local/PERMITS_SQL/1014221201_1591897829.68/0/okio-1-17-2-sources-jar/okio/Sink.java
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* /opt/ws_local/PERMITS_SQL/1014221201_1591897829.68/0/okio-1-17-2-sources-jar/okio/Util.java
* /opt/ws_local/PERMITS_SQL/1014221201_1591897829.68/0/okio-1-17-2-sources-jar/okio/BufferedSink.java
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1.347 guava 19.0

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1.353 jnr-constants 0.9.8

1.354 jaf 1.1
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1.355 spring-framework 5.1.10
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import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name="DRIVERS_LICENSE")
public class DriversLicense {
@Id
private int id;

private String serial_number;

protected DriversLicense() {
}

public DriversLicense(String serialNumber) {
    this.serial_number = serialNumber;
}

public String getSerialNumber() {
    return serial_number;
}

</?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD//EN"
"https://hibernate.org/dtd/hibernate-mapping-3.0.dtd">

<hibernate-mapping auto-import="true" default-lazy="false">
    <class name="org.springframework.test.context.junit4.orm.domain.DriversLicense" table="drivers_license">
        <id name="id" column="id">
            <generator class="identity" />
        </id>
        <property name="number" column="license_number" />
    </class>
</hibernate-mapping>

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 */
package org.springframework.test.context.junit4.orm.domain;

/**
 * DriversLicense POJO.
 * @author Sam Brannen
 * @since 3.0
 */
public class DriversLicense {

private Long id;

private Long number;

public DriversLicense() {
}

public DriversLicense(Long number) {
    this(null, number);
}

public DriversLicense(Long id, Long number) {
    this.id = id;
    this.number = number;
}

public Long getId() {
    return this.id;
}

protected void setId(Long id) {
    this.id = id;
}

public Long getNumber() {
    return this.number;
}

public void setNumber(Long number) {
    this.number = number;
}

}
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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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 * Set the {@code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
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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.
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1.366 apache-http-client 4.5.10

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  jar/org/springframework/aop/aspectj/AspectJWeaverMessageHandler.java

1.381 udev 237 3ubuntu10.31

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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

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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
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Otherwise, if the work is a derivative of the Library, you may
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**1.390 jacoco 0.8.5**

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<html xmlns="http://www.w3.org/1999/xhtml" lang="en">
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <link rel="stylesheet" href="resources/doc.css" charset="UTF-8" type="text/css" />
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1.391 netty-transport 4.1.39

1.392 json-path 2.4.0
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DOCUMENTATION ROADMAP
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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.

codechange.log  Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc  How to use the JPEG library in your own programs.

directory.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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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, ltconfig, ltmain.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

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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% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled “Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines” and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled “Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing” and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

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

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

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

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

ARCHIVE LOCATIONS
=================

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.

1.394 mx4j 3.0.2

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# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
application/gpx+xml
gpx
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gxf
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# application/http
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# application/ibe-key-request+xml
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# application/ibe-pp-data
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# application/im-iscomposing+xml
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# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
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ink
inkml
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application/ipfix
ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive
jar
application/java-serialized-object
ser
application/java-vm
class
application/javascript
js
# application/jose
# application/jose+json
# application/jrd+json
application/json
# application/json-patch+json
# application/json-seq
application/jsonml+json
jsonml
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
# application/lost+xml
lostxml
# application/lostsync+xml
# application/lxf
application/mac-binhex40
hqx
application/mac-compactpro
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application/mads+xml mads
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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/mp21 m21 mp21
application/mp4 mp4s
# 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/msword doc dot
application/mxf mxf
# 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 bind ds lrf mar sd distz pkg bpk dump elc deploy
application/oda
# application/odx
application/oebps-package+xml
application/ogg
application/omdoc+xml
application/onenote
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
# 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-certificate
application/pkix-crl
application/pkix-pki-path
application/pls+xml
# application/poc-settings+xml
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# application/ppsp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
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# application/prs.hpub+zip
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# application/prs.plucker
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# application/prs.xsf+xml
application/pskc+xml
# application/qsig
# application/raptorfec
# application/rdap+json
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application/reginfo+xml
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# application/rfc+%xml
# application/riscos
# application/rlmi+xml
application/rls-services+xml
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application/rpki-manifest+xml
application/rpki-roa+xml
# application/rpki-updown
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# application/rtftp
# application/rttloopback
# application/rtx
# application/samlassertion+xml
# application/samlmetadata+xml
application/sbml+xml
# application/scaip+xml
# application/scim+xml
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# application/sep-exi
# application/session-info
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# application/set-registration
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# application/sgrml+xml
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# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml				smi smil
# application/smpel336m
# application/soap+fastinfoeset
# application/soap+xml
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application/sparql-results+xml			srx
# application/spirits-event+xml
# application/sql
application/srgsgram
application/srgs+xml				grxml
application/sru+xml				sru
application/ssdl+xml				ssdl
application/ssml+xml				ssml
# 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				tfi
# application/timestamp-query
# application/timestamp-reply
application/timestamped-data			tsd
# application/ttml+xml
# application/tve-trigger
# application/ulpfec
# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/urc-targetdesc+xml
# application/urc-uisocketdesc+xml
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# application/vnd.dvb.notif-init+xml
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# application/vnd.dvb.dzr
# application/vnd.easykaraoke.cdgdownload
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# application/vnd.ecowin.fileupdate
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# application/vnd.enphase.envoy
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# application/vnd.etsi.asic-e+xml
# application/vnd.etsi.asic-s+xml
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
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# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
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# application/vnd.etsi.iptvsync+xml
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application/vnd.fujitsu.oasys2oa2
application/vnd.fujitsu.oasys3oa3
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application/vnd.fujitsu.oasysprsbh2
# application/vnd.fujixerox.art-ex
# application/vnd.fujixerox.art4
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# application/vnd.geocube+xml
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application/vnd.google-earth.kmzkmz
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# application/vnd.informedcontrol.rms+xml
# application/vnd.informix-visionary
# application/vnd.infotech.project
# application/vnd.infotech.project+xml
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# application/vnd.rapid
# application/vnd.rar
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uplanet.bearer-choice
application/vnd.uplanet.bearer-choice-wbxml
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application/x-hdf
application/x-install-instructions
install
application/x-iso9660-image
iso application/x-java-jnlp-file
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application/x-msaccess
mdb application/x-msbinder
obd application/x-mscardfile
crd application/x-msclip
clp application/x-msdownload
dll com bat msi application/x-msmediaview
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csd application/x-msterminal
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rwi application/x-netcdf
nc cdf application/x-nzb
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sitx application/x-subrip
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v4cpiocpio
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# audio/3gpp2
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# audio/rtploopback
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# audio/speex
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# audio/vnd.cns.inf1
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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}
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* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/TypeLocator.java

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* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/ast/MethodReference.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/ast/InlineMap.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
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* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/ast/ValueRef.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/support/StandardTypeComparator.java
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  jar/org/springframework/expression/ParserContext.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
  jar/org/springframework/expression/spel/standard/Token.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
  jar/org/springframework/expression/OperatorOverloader.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
  jar/org/springframework/expression/spel/CompiledExpression.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
  jar/org/springframework/expression/TypeComparator.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
  jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
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  jar/org/springframework/expression/spel/ast/PropertyAccessor.java
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  jar/org/springframework/expression/spel/ExpressionParserConfiguration.java
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  jar/org/springframework/expression/spel/ast/Literal.java
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jar/org/springframework/expression/spel/support/StandardTypeLocator.java
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* /opt/ws_local/PERMITS_SQL/1008568057_1591377104.21/0/netty-transport-native-unix-common-4-1-39-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
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* /opt/ws_local/PERMITS_SQL/1008568057_1591377104.21/0/netty-transport-native-unix-common-4-1-39-final-sources-jar/io/netty/channel/unix/SocketAddress.java
* /opt/ws_local/PERMITS_SQL/1008568057_1591377104.21/0/netty-transport-native-unix-common-4-1-39-final-sources-jar/io/netty/channel/unix/ServerSocketChannel.java

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* /opt/ws_local/PERMITS_SQL/1008568057_1591377104.21/0/netty-transport-native-unix-common-4-1-39-final-
sources-jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/ws_local/PERMITS_SQL/1008568057_1591377104.21/0/netty-transport-native-unix-common-4-1-39-final-
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1.399 bean-validation-api 2.0.1
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enc/trans/JIS/JISX0212%UCS@BMP.src::
enc/trans/JIS/JISX0212%UCS@SIP.src::

cenc/trans/JIS/JISX0213-1%UCS@BMP.src::
enc/trans/JIS/JISX0213-1%UCS@SIP.src::
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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

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

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vm_dump.c:procstat_vm:
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missing/dup2.c::
missing/erf.c::
missing/finite.c::
missing/hypot.c::
missing/isinf.c::
missing/isnan.c::
missing/lgamma_r.c::
missing/memcmp.c::
missing/memmove.c::
missing/strchr.c::
missing/strerror.c::
missing/strstr.c::
missing/tgamma.c::
ext/date/date_strftime.c::
ext/digest/sha1/sha1.c::
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ext/nkf/nkf-utf8/config.h::
ext/nkf/nkf-utf8/nkf.c::
ext/nkf/nkf-utf8/utf8tbl.c::

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ext/psych::
test/psych::

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ext/socket/getaddrinfo.c::
ext/socket/getnameinfo.c::

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ext/win32ole/win32ole.c::

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lib/rdoc/generator/template/darkfish/css/fonts.css::

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>>> http://scripts.sil.org/OFL

spec/mspec::
spec/ruby::

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RSpec.describe "bundle licenses" do
  before :each do
    install_gemfile <<-G
      source "file://#{gem_repo1}
      gem "rails"
      gem "with_license"
    G
  end
end
it "prints license information for all gems in the bundle" do
  bundle "licenses"

  loaded_bundler_spec = Bundler.load.specs["bundler"]
  expected = if !loaded_bundler_spec.empty?
    loaded_bundler_spec[0].license
  else
    "Unknown"
  end

  expect(out).to include("bundler: #{expected}")
  expect(out).to include("with_license: MIT")
end

it "performs an automatic bundle install" do
  gemfile <<-G
    source "file://#{gem_repo1}"
    gem "rails"
    gem "with_license"
    gem "foo"
  G

  bundle "config auto_install 1"
  bundle :licenses
  expect(out).to include("Installing foo 1.0")
end
end

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

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1.

2.

(a)

(b)

(c)

(d)

3.

(a)

(b)

(c)

(d)

4.
LEGAL

5.

6.
# frozen_string_literal: true
require 'rubygems/text'
class Gem::Licenses
  extend Gem::Text
  NONSTANDARD = 'Nonstandard'.freeze

  # Software Package Data Exchange (SPDX) standard open-source software
  # license identifiers
  LICENSE_IDENTIFIERS = %w(
    0BSD
    AAL
    ADSL
    AFL-1.1
    AFL-1.2
    AFL-2.0
    AFL-2.1
    AFL-3.0
    AGPL-1.0
    AGPL-3.0
    AGPL-3.0-only
    AGPL-3.0-or-later
    AMDPLPA
    AML
    AMPAS
    ANTLR-PD
    APAFML
    APL-1.0
    APSL-1.0
    APSL-1.1
    APSL-1.2
    APSL-2.0
    Abstyles
    Adobe-2006
    Adobe-Glyph
    Afmparse
    Aladdin
Apache-1.0
Apache-1.1
Apache-2.0
Artistic-1.0
Artistic-1.0-Perl
Artistic-1.0-cl8
Artistic-2.0
BSD-1-Clause
BSD-2-Clause
BSD-2-Clause-FreeBSD
BSD-2-Clause-NetBSD
BSD-2-Clause-Patent
BSD-3-Clause
BSD-3-Clause-Attribution
BSD-3-Clause-Clear
BSD-3-Clause-LBNL
BSD-3-Clause-No-Nuclear-License
BSD-3-Clause-No-Nuclear-License-2014
BSD-3-Clause-No-Nuclear-Warranty
BSD-4-Clause
BSD-4-Clause-UC
BSD-Protection
BSD-Source-Code
BSL-1.0
Bahyph
Barr
Beerware
BitTorrent-1.0
BitTorrent-1.1
Borceux
CATOSL-1.1
CC-BY-1.0
CC-BY-2.0
CC-BY-2.5
CC-BY-3.0
CC-BY-4.0
CC-BY-NC-1.0
CC-BY-NC-2.0
CC-BY-NC-2.5
CC-BY-NC-3.0
CC-BY-NC-4.0
CC-BY-NC-ND-1.0
CC-BY-NC-ND-2.0
CC-BY-NC-ND-2.5
CC-BY-NC-ND-3.0
CC-BY-NC-ND-4.0
CC-BY-NC-SA-1.0
CC-BY-NC-SA-2.0
EUPL-1.0
EUPL-1.1
EUPL-1.2
Entessa
ErlPL-1.1
Eurosym
FSFAP
FSFUL
FSFULLR
FTL
Fair
Frameworx-1.0
FreeImage
GFDL-1.1
GFDL-1.1-only
GFDL-1.1-or-later
GFDL-1.2
GFDL-1.2-only
GFDL-1.2-or-later
GFDL-1.3
GFDL-1.3-only
GFDL-1.3-or-later
GL2PS
GPL-1.0
GPL-1.0+
GPL-1.0-only
GPL-1.0-or-later
GPL-2.0
GPL-2.0+
GPL-2.0-only
GPL-2.0-or-later
GPL-2.0-with-GCC-exception
GPL-2.0-with-autoconf-exception
GPL-2.0-with-bison-exception
GPL-2.0-with-classpath-exception
GPL-2.0-with-font-exception
GPL-3.0
GPL-3.0+
GPL-3.0-only
GPL-3.0-or-later
GPL-3.0-with-GCC-exception
GPL-3.0-with-autoconf-exception
Giftware
Glide
Glulxe
HPND
HaskellReport
IBM-pibs
ICU
IJG
IPA
IPL-1.0
ISC
ImageMagick
Imlib2
Info-ZIP
Intel
Intel-ACPI
Interbase-1.0
JSON
JasPer-2.0
LAL-1.2
LAL-1.3
LGPL-2.0
LGPL-2.0+
LGPL-2.0-only
LGPL-2.0-or-later
LGPL-2.1
LGPL-2.1+
LGPL-2.1-only
LGPL-2.1-or-later
LGPL-3.0
LGPL-3.0+
LGPL-3.0-only
LGPL-3.0-or-later
LGPLLR
LPL-1.0
LPL-1.02
LPPL-1.0
LPPL-1.1
LPPL-1.2
LPPL-1.3a
LPPL-1.3c
Latex2e
Leptonica
LiLiQ-P-1.1
LiLiQ-R-1.1
LiLiQ-Rplus-1.1
Libpng
MIT
MIT-CMU
MIT-advertising
MIT-enna
MIT-feh
MITNFA
MPL-1.0
MPL-1.1
MPL-2.0
MPL-2.0-no-copyleft-exception
MS-PL
MS-RL
MTLL
MakeIndex
MirOS
Motosoto
Multics
Mup
NASA-1.3
NBPL-1.0
NCSA
NGPL
NLOD-1.0
NLPL
NOSL
NPL-1.0
NPL-1.1
NPOSIL-3.0
NRL
NTP
Naumen
Net-SNMP
NetCDF
Newslétr
Nokia
Noweb
Nunit
OCCT-PL
OCLC-2.0
O_DBG-1.0
OFL-1.0
OFL-1.1
OGTSL
OLDAP-1.1
OLDAP-1.2
OLDAP-1.3
OLDAP-1.4
OLDAP-2.0
OLDAP-2.0.1
OLDAP-2.1
OLDAP-2.2
OLDAP-2.2.1
OLDAP-2.2.2
OLDAP-2.3
OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
OPL-1.0
OSET-PL-2.1
OSL-1.0
OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
OpenSSL
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
Python-2.0
QPL-1.0
Qhull
RHeCos-1.1
RPL-1.1
RPL-1.5
RPSL-1.0
RSA-MD
RSCPL
Rdisc
Ruby
SAX-PD
SCEA
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SISSL
SISSL-1.2
SMLNJ
SMPPL
SNIA
SPL-1.0
SWL
Saxpath
Sendmail
SimPL-2.0
Sleepycat
Spencer-86
Spencer-94
Spencer-99
StandardML-NJ
SugarCRM-1.1.3
TCL
TCP-wrappers
TMate
TORQUE-1.1
TOSL
UPL-1.0
Unicode-DFS-2015
Unicode-DFS-2016
Unicode-TOU
Unlicense
VOSTROM
VSL-1.0
Vim
W3C
W3C-19980720
W3C-20150513
WTFPL
Watcom-1.0
WsuiPA
X11
XFree86-1.1
XSKat
Xerox
Xnet
YPL-1.0
YPL-1.1
ZPL-1.1
ZPL-2.0
ZPL-2.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
Zlib
bzip2-1.0.5
bzip2-1.0.6
curl
diffmark
dvipdfm
eCos-2.0
eGenix
gSOAP-1.3b
gnuplot
iMatix
libtiff
mpich2
psfrag
psutils
wxWindows
xinetd
xpp
zlib-acknowledgement
).freeze

# exception identifiers
EXCEPTION_IDENTIFIERS = %w( 389-exception  
Autoconf-exception-2.0  
Autoconf-exception-3.0  
Bison-exception-2.2  
Bootloader-exception  
CLISP-exception-2.0  
Classpath-exception-2.0  
DigiRule-FOSS-exception  
FLTK-exception  
Fawkes-Runtime-exception  
Font-exception-2.0  
GCC-exception-2.0  
GCC-exception-3.1  
LZMA-exception  
Libtool-exception  
Linux-syscall-note  
Nokia-Qt-exception-1.1  
OCCT-exception-1.0  
Qwt-exception-1.0  
WxWindows-exception-3.1  
eCos-exception-2.0  
freertos-exception-2.0  
gnu-javamail-exception  
i2p-gpl-java-exception  
mif-exception  
openvpn-openssl-exception  
u-boot-exception-2.0
).freeze

REGEXP = %r{  
\A
  (  
    #{Regexp.union(LICENSE_IDENTIFIERS)}
  )+?
  (\s WITH \s #{Regexp.union(EXCEPTION_IDENTIFIERS)})?  
  \| #{[NONSTANDARD]}
  )
\Z
def self.match?(license)
  !REXP.match(license).nil?
end

def self.suggestions(license)
  by_distance = LICENSE_IDENTIFIERS.group_by do |identifier|
    levenshtein_distance(identifier, license)
  end
  lowest = by_distance.keys.min
  return unless lowest < license.size
  by_distance[lowest]
end

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  * POP3S support

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  * ri
  * rubygems

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* documentation

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* a patch for sprintf.c

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  * complex.rb (1.8)
  * e2mmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

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Lyle Johnson
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* He wrote supports for some encodings.

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* patch for tool/file2lastrev.rb.

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* net/imap

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* documentation

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* committer
* Ruby itself, most of Ruby.
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  * timeout
  * gdbm
  * sdbm

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* documentation

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* missing/strlcat.c
* missing/strlcpy.c

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Kyosuke Morohashi
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* generator (1.8)
* enumerator (1.8)
* set
* ipaddr.rb
* digest/*
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  * logger.rb
  * soap/* (1.8)
  * xsd/* (1.8)

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  * nbf

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  * missing/lgamma_r.c
  * missing/tgamma.c

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* a patch for instruby.rb

== Q

== R

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The Regents of the University of California
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* missing/vsnprintf.c

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* documentation

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* a patch for io.c

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* a patch for mkconfig.rb.

Run Paint Run Run
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* documentation

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* did much upon documentation

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* documentation

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Dan Zwell
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* /opt/ws_local/PERMITS_SQL/1014221964_1591897705.8/0/powermock-api-support-1-6-1-sources-jar/org/powermock/api/support/SafeExceptionRethrower.java

1.408 util 1.2.3

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```javascript
'use strict'

const {License} = require('the-templates')
const {license, repository} = require('./package.json')

module.exports = License({
  type: license,
  holder: repository.split('/').shift(),
  year: 2017
});

if (!module.parent) {
  require('coz').render(__filename)
}
```

### 1.409 attr 2.4.48-r0

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The following organisations and people have contributed to the Bouncy Castle Cryptography Package.
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Thanks, may your castles never deflate!
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<li>Steve Mitchell &lt;mitchell@#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.</li>
<li>Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>
<li>Dirk Eisner &lt;D.Eisner@#064seeburger.de&gt; - initial implementation of ISO 78164-4 packing.</li>
<li>Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo &lt;mattartuso@#064libero.it&gt; - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson &lt;andrew.paterson@#064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov &lt;vladimir.n.molotkov@#064intel.com&gt; - extensive provider exception handling compliance testing.</li>
<li>Florin Kollan &lt;adlocflo@#064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassiliev &lt;paulvas@#064gmail.com&gt; - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman &lt;tom@#064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>
<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch &lt;Arndt.Hasch@#064maxence.de&gt; - additional fix for partial reading with new style PGP
Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

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

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

Tu-vi Cung &lt;t2cung@064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.

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

David M. Lee &lt;dmlee@crossroads.com&gt; - implementation assistance with streaming CMS classes.

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

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

Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;remit.Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

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

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

David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

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

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

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

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

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

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

Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

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

John Alfred Prufrock &lt;j.a.prufrock@604gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;stefan@604gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@604gmail.com&gt; - fix to endianess in KDFBytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold@604gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@604yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;pasi.eronen@604nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@604gmail.com&gt; - support for tags &gt; 30 in ASN.1 parsing.

Armin H&amp;auml;berling &lt;arminh&amp;#x64;student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;m.schilder@604google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vouch &lt;xavier@604brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews@604cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@604gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@604frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;rjoaquim@604cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@604allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Maritijn Brinkers &lt;list@mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juliusdavies@604gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@604rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga K&amp;auml;rth &lt;olga.karethler@604hjpConsulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@604gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

N&amp;auml;ria &lt;ria@604hotmail.com&gt; - patch for alternate data type recognition in CMSignedDataParser.

Janis Schuller &lt;js@604tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike@604samblanet.com&gt; - patches towards improved Sun/default provider
support in CMS.

- Mike StJohns &lt;mstjohns&#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
- Ramon Keller &lt;ramon.keller&#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- Mark Nelson &lt;mark&#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.
- Eugene Golushkov &lt;eugene_eff&#064ukr.net&gt; - mask fix to single byte read in TLSInputStream.
- Julien Pasquier &lt;julienpasquier&#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ert libraries.
- Peter Knopp &lt;pknopp&#064mesage.de&gt; - fix for named curve recognition in ECOST key generation.
- Jakub Gwozdz &lt;gwozdziu&#064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.
- Bartosz Malkowski &lt;bmalkow&#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
- Tal Yacobi &lt;tal.yacobi&#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.
- Andrey Pavlenko &lt;andrey.a.pavlenko&#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.
- J Ross Nicoll &lt;jrn&#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.
- Matthew Stevenson &lt;mavricknz&#064yahoo.com&gt; - patch to constructor for CRMF CertSequence.
- Gabriele Contini &lt;gcontini&#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEFs.
- Roelof Naude &lt;roelof.naude&#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
- Patrick Peck &lt;peck&#064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
- Michael LeMay &lt;lemaymd&#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].
- Alex Dupre &lt;ale&#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].
- Michael Schoene &lt;michael&#064sgrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
- Ion Larrañaga &lt;ilarra&#064s21sec.com&gt; - fix to default partial packet generation in BCPOutputStream.
- Stefan Meyer &lt;stefan.meyer&#064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.
- Robert J. Moore &lt;Robert.J.Moore&#064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.
- Rui Hodai &lt;rui&#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.
- Emir Bucalovic &lt;emir.bucalovic&#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.
- Torbjorn Svensson &lt;torbe79&#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.
- Paul FitzPatrick &lt;bouncycastle_pfitz&#064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
Henrik Andersson &lt;k.henrik.andersson#gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit#gmail.com&gt; subjectAlternativeName fix for x.509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23#yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriqueus &lt;pmahenriques#gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kinneringer &lt;job#604kimmerering.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>
<li>Richard Farr &lt;farr.se#604gmail.com&gt; initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione#604au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani#604sogei.it&gt; patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;l737lundgren#604gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil#604centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_a#604gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hsrawat#604yahoo.com&gt; fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;lindemann#604trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Alex Artamonov &lt;alexart.home#604gmail.com&gt; name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons &lt;mllyons#604layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole &lt;chris_h_cole#604yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomas Krivanek &lt;tom#604attack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau#604t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor#604cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kilaringss &lt;markus#604primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis#604yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;mssmith#604cnbc.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio#604yahoo.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex#604birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant &lt;waynedgrant#604gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.</li>
<li>Frank Cornelis &lt;info#604frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittbner &lt;jan#604dittbner.info&gt; addHeader patch for SMIME generator.</li>
<li>Bob McGowan &lt;boab.mcgowoo#604btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis &lt;i.matheis#604seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini &lt;messche#604gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf &lt;alfilmalf#604hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.
<li>Alfonso Massa &lt;alfonso.massa@insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo@unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis@ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociski &lt;J.Sikocinski@gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten &lt;liane.velten@064hp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Mike Laiking &lt;mike@04keynctis.com&gt; initial cut of EAC classes.</li>
<li>Tim Buktu &lt;tbuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
<li>Petar Petrov &lt;p.petrov@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>David Fitzpatrick &lt;david.f.nwr@064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
<li>Andy Neilson &lt;Andy.Neilson@quest.com&gt; Further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw &lt;xiao.xj@064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lv2EUVW99v3yNV3IWRG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root &lt;kenny@064-the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AED.</li>
<li>Maarten Bodewes &lt;maarten.bodewes@064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay &lt;pilf_b@064gh@yahoo.com&gt; Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom &lt;bd@064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lidé &lt;samuel@064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.</li>
<li>Sergio Demian Lerner &lt;sergiolerner@064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.</li>
<li>Tim Whittington &lt;Tim.Whittington@064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha,
reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.

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

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

Sergey Tiunov &lt;tt555d#064gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfreddy#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

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

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

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

Matti Aarnio &lt;matti.aarnio#064mectics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric Müller &lt;eric.mueller#sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86#064gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Uttin &lt;cindrhc#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb#064riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;&gt; further work on completing gradle build.

Waldemar Dick &lt;wdick#064devmue.de&gt; code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward#064pdflabs.com&gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;klyubin#064google.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;gsoc.student#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter#064aiak.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;Daniel.Heldt#064cryptovision.com&gt; Initial support for encodable state message
Robert Bushman &lt;bouncycastle&#064traxel.com&gt; Clean up of DirectKeySignature example.

Maurice Aarts &lt;maarts&#064freeriscure.com&gt; updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.

KB Sirram &lt;mail_kb&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze &lt;marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.

Martin Schaefer &lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.

dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich &lt; tobias.wich &#064; 064ecsec.de &gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens &lt; hauke &#064; 064hauke-m.de &gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman &lt; dmz &#064; 064galois.com &gt; Further key quality improvements to RSAPairGenerator.

Jens Kapitza &lt; kj Kapitza &#064; 064schwarzew-allianz.de &gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt; johan &#064; 064primekey.se &gt; update to RFC 6960 for OCSPObjectIdentifiers.

nikosn &lt; https://github.com/nikosn &gt; Fix to encoding of EC private keys to ensure encoding matches order length.

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

Derek Atkins &lt; derek &#064; 064htfp.com &gt; Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky &lt; peto &#064; 064halicky.sk &gt; Correction to notification/error message handling in SignedValidator.

lartiguePierre &lt; https://github.com/lartiguePierre &gt; Fix for counter signature SID in CMSSignedData.

Thomas Belot &lt; thomas.belot + BC &#064; 064gmail.com &gt; initial CertPathLoopTest for demonstrating stack overflow issue.

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

Bjorn Kautler &lt; https://github.com/Vampire &gt; Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schummlmann &lt; https://github.com/dschuermann &gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael &lt; MSKnete &#064; 064web.de &gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

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

Bjorn Kautler &lt; https://github.com/Vampire &gt; Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schummlmann &lt; https://github.com/dschuermann &gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael &lt; MSKnete &#064; 064web.de &gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

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

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

bschuette &lt; https://github.com/bschuette &gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

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

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

- Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt;: Fixes to toString() in x509.CertificatePolicies.
- Kai Kramer &lt;kai.kramer@#064gmail.com&gt;: Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
- Benoit Charles &lt;benoit.charles@#064opentrust.com&gt;: Fix for IES data length check on decryption.
- Niko &lt;nfinke95@#064gmail.com&gt;: Fix to cast issue in getOutputSize() for ECIES.
- akwizgran &lt;https://github.com/akwizgran&gt;: Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.
- Sebastian Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt;: BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt;: Initial XMSS/XMSS-MT implementation.
- Mike Safonov &lt;https://github.com/MikeSafonov&gt;: initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
- Artem Storozhuk &lt;storojs72@#064gmail.com&gt;: initial implementation of DSTU7564 (digest) and
DSTU7624 (cipher) and their associated modes.</li>
<li>Andreas Glaser &lt;andreas.glaser&#064;gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.</li>
<li>codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGO-ST-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.</li>
<li>Scott Woodward &lt;scott&#064;bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Srawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYP'T bounds checking.</li>
<li>chris mccown &lt;0xchrismccown&#064;gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
<li>Andreas Kretschmer &lt;https://github.com/akretsch&gt; NPE fix for CertTemplate.getVersion().</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Scott Woodward &lt;scott&#064;bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>Chrisof Gadermaier &lt;https://github.com/Akretsch&gt; final implementation of Blake2s.</li>
<li>Adrian Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/bernd&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>cattref &lt;https://github.com/cattref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu&#064;gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>
<li>MTG &lt;https://github.com/magtag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;https://github.com/gadermaier&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;tony.washer@yahooc.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macks.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.

Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.

Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.

Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palm&amp;eacute;r, TrueSec &lt;Henrik.Palmer&amp;064truesec.se&gt; Additional improvements to constant time comparisons.

Ren&amp;eacute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.

THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.

Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.

gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SEExpr.

im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.

dhusche &lt;https://github.com/dhusche&gt; Argon2 optimisations.

Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweaks to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers numberOfLeadingZeros method.

Gsealy &lt;https://github.com/Gsealy&gt; Addition of PBKDF2WithHmacSM3 to the provider.

aphuang2013 &lt;https://github.com/aphuang2013&gt; Update to path validation in EST service for ClearPath EST.

Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.

vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.

Tobias Ospelt &lt;https://github.com/THausherr&gt; Identification of 1.63 regression in ASN.1 parsing.

1.414 io-grpc-grpc-api 1.25.0

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  jar/io/grpc/InternalDecompressorRegistry.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/CallCredentials.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/Grpc.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ConnectivityStateInfo.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/LoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/InternalMethodDescriptor.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ServiceDescriptor.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/SecurityLevel.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/InternalKnownTransport.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/NameResolverProvider.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ConnectivityState.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/CallCredentials2.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/InternalNotifyOnServerBuild.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ServerTransportFilter.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/InternalMetadata.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/BindableService.java

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  jar/io/grpc/InternalChannelz.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/PartialForwardingClientCallListener.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/InternalManagedChannelProvider.java
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  jar/io/grpc/InternalClientInterceptors.java
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  jar/io/grpc/SynchronizationContext.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/LoadBalancerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/InternalChannelz.java
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  jar/io/grpc/PartialForwardingClientCall.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ChannelLogger.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
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  jar/io/grpc/SynchronizationContext.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/LoadBalancerProvider.java
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  jar/io/grpc/LoadBalancerRegistry.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ServerBuilder.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ForwardingServerCall.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ManagedChannel.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/Compressor.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/EquivalentAddressGroup.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ExperimentalApi.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ServerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ForwardingClientCall.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/PartialForwardingServerCall.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/Internal.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/CallOptions.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ManagedChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/ManagedChannelProvider.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/Attributes.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-
  jar/io/grpc/Contexts.java
jar/io/grpc/NameResolver.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/ForwardingClientCallListener.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/DecompressorRegistry.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/StatusException.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/StatusRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/PartialForwardingServerCallListener.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/Decompressor.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/Codec.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/CompressorRegistry.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/ForwardingServerCallListener.java

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* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/HttpConnectProxiedSocketAddress.java
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* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/InternalWithLogId.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/InternalServiceProviders.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/ClientStreamTracer.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/ForwardingChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/ServiceProviders.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/InternalStatus.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/StreamTracer.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/ProxyDetector.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/InternalServerInterceptors.java
* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/InternalLogId.java
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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

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

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

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

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

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

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@author Alan Liu
@stable ICU 2.0

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</p>

<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

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

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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 */

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {

    public Permission(String name) {
    }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {
    }

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

    public abstract String getActions();

    public abstract boolean implies(Permission permission);

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

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

If the program is interactive, make it output a short notice like this 
when it starts in an interactive mode:

@example
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. 
This is free software, and you are welcome to redistribute it 
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@end example

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necessary. Here is a sample; alter the names:
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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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1.424 ruby-test-unit 3.2.5 1
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/operators/package-info.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/ObserverSubscriber.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaSingleExecutionHook.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleDoAfterTerminate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/SingleSubscriber.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribePublishMulticast.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/DeferredScalarSubscriber java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOnSubscribeUsing.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOperatorZip.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTakeLastOne.java

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OperatorBufferWithSingleObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OnSubscribeTimerOnce.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OperatorWindowWithObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OperatorDistinctUntilChanged.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OperatorMulticast.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OnSubscribeDelaySubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OperatorRetryWithPredicate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OperatorMapPair.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OperatorPublish.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OnSubscribeSkipTimed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OperatorDelayWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/schedulers/ScheduledAction.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OnSubscribeRefCount.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/atomic/SpscLinkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorDistinct.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDebounceWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/NewThreadWorker.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorBufferWithSize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOnSubscribeDelaySubscriptionOther.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/PlatformDependent.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/RxThreadFactory.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDoAfterTerminate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSwitch.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWithLatestFrom.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithSize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSampleWithObservable.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSampleWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Actions.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSkipUntil.java

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  jar/rx/internal/producers/QueuedProducer.java
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  jar/rx/internal/producers/SingleProducer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
  jar/rx/internal/operators/BackpressureUtils.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
  jar/rx/internal/producers/ProducerArbiter.java
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  jar/rx/internal/producers/SingleDelayedProducer.java
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core/src/main/java/org/jctools/queues/atomic/BaseLinkedQueue.java
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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project: https://github.com/JCTools/JCTools

JCTools has now published artifacts (https://github.com/JCTools/JCTools/issues/17) so RxJava could add JCTools as a "shadow" dependency (https://github.com/ReactiveX/RxJava/issues/1735). RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is https://github.com/JCTools/JCTools/blob/master/LICENSE

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* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
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* /

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1.437 jackson-annotations jackson-annotations 2.9.10

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
1.439 asm-util 5.0.3

1.440 spring-messaging 5.1.10

1.440.1 Available under license:

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/simp/config/TaskExecutorRegistration.java

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jar/org/springframework/messaging/simp/SimpAttributes.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-
jar/org/springframework/messaging/simp/annotation/SendToUser.java
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jar/org/springframework/messaging/handler/invocation/AbstractExceptionHandlerMethodResolver.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-
jar/org/springframework/messaging/tcp/reactor/AbstractNioBufferReactorNettyCodec.java
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jar/org/springframework/messaging/handler/annotation/support/AnnotationExceptionHandlerMethodResolver.java
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* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-
jar/org/springframework/messaging/converter/MappingJackson2MessageConverter.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-
jar/org/springframework/messaging/handler/DestinationPatternsMessageCondition.java
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* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-
jar/org/springframework/messaging/handler/AbstractMessageCondition.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-
jar/org/springframework/messaging/handler/support/DefaultUserDestinationResolver.java
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jar/org/springframework/messaging/tcp/TcpConnection.java
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jar/org/springframework/messaging/converter/MappingJackson2MessageConverter.java
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jar/org/springframework/messaging/handler/AbstractSubscriptionRegistry.java

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* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/simp/stomp/StompCommand.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/simp/user/SimpUserRegistry.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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**1.447 aspectj-weaver 1.9.4**

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* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/SecurityLevel.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/LoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/CallCredentials2.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ConnectivityState.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/InternalNotifyOnServerBuild.java

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jar/io/grpc/ProxyDetector.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-
jar/io/grpc/ClientStreamTracer.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-
jar/io/grpc/ServiceProviders.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-
jar/io/grpc/ServerStreamTracer.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-
jar/io/grpc/InternalServerInterceptors.java
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jar/io/grpc/InternalLogId.java
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jar/io/grpc/ChannelLogger.java
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jar/io/grpc/InternalClientInterceptors.java
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jar/io/grpc/PartialForwardingClientCallListener.java
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jar/io/grpc/InternalManagedChannelProvider.java
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jar/io/grpc/SynchronizationContext.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-
jar/io/grpc/PartialForwardingClientCall.java
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jar/io/grpc/LoadBalancerRegistry.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-
jar/io/grpc/LoadBalancerProvider.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-
jar/io/grpc/InternalChannelz.java
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* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/StatusRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/PartialForwardingServerCall.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ExperimentalApi.java
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* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ManagedChannel.java
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* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ForwardingClientCall.java
jar/io/grpc/DecompressorRegistry.java
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* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ForwardingClientCallListener.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/Decompressor.java

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* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ServerCall.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ClientInterceptors.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ServerInterceptor.java
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*/
/**
* A [@link WebApplicationContext] that can be used to bootstrap itself from a contained
* [@link ServletWebServerFactory] bean.
* 
* 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).
* 
* 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
@see AnnotationConfigServletWebServerApplicationContext
@see XmlServletWebServerApplicationContext
@see ServletWebServerFactory

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**1.466 unzip 6.0-21ubuntu1**

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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 core code is now covered by the Info-ZIP License. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
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 *
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71150.2731@compuserve.com]:

"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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 */
/**
 * 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.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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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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/**
 * 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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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/util/Textifiable.java

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  jar/org/objectweb/asm/TypeReference.java

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*
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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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
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* { @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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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/signature/package.html
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/package.html
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/package.html
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jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2Handler.java
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jar/io/netty/handler/codec/http2/Http2Settings.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/ShortObjectMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/LifecycleManager.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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jar/io/netty/handler/codec/DefaultHeaders.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/BulkStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/RedisClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/RedisCodecUtil.java

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  /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/PriorityQueue.java
  /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
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  /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/redis/RedisEncoder.java
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jar/io/netty/util/UncheckedBooleanSupplier.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/ReflectionUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2UnknownFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/Java9SslEngine.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/uptime/UptimeServerHandler.java
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jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2StreamChannelBootstrap.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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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>
* </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.
* </p>

* <h3>State management</h3>

* <p>
* A [@link ChannelHandler] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* </p>

* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]<Message> {
*     
*     private boolean loggedIn;
*     
*     @code @Override
*     public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*         @link Channel] ch = e.getChannel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ch.write(fetchSecret((GetDataMessage) message));
*             }
*         }
*     }
* }

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
// Create a new handler instance per channel.
// See [ChannelInitializer#initChannel](https://example.com).
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

### Using AttributeKeys

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 [AttributeKeys](https://example.com) which is provided by

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

```java
@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.of("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        Channel ch = ctx.channel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else (message instanceof GetDataMessage) {
```
if (Boolean.TRUE.equals(attr.get())) {
    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:

public class DataServerInitializer extends @link ChannelInitializer&lt;Channel&gt; {

    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 the JCIP annotations.

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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*/
/**
  * 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.
  */

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/sctp/DefaultSctpServerChannelConfig.java
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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/HttpConversionUtil.java

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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/base64/Base64Dialect.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 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 `<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 = 2 (= the length of the Length field)
* </pre>
* BEFORE DECODE (14 bytes)     AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length  | Actual Content |----->| Actual Content |
* | 0x000C  | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
* 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    = -2 (= the length of the Length field)
* initialBytesToStrip =  0
* </pre>
* BEFORE DECODE (14 bytes)     AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length  | Actual Content |----->| Length  | Actual Content |
* | 0x000E  | "HELLO, WORLD" |      | 0x000E  | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 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>
* 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>
*
* 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>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* 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>.
* <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)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* | HDR1 | Length | HDR2 | Actual Content |
* | 0xCA | 0x000C | 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 \texttt{lengthAdjustment}
* because the length field already includes the whole header length.

* lengthFieldOffset = 1
* lengthFieldLength = 2
* \texttt{lengthAdjustment} = \texttt{-3} (= the length of HDR1 + LEN, negative)
* \texttt{initialBytesToStrip} = \texttt{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" |

*/

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/SslContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/resolver/AddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/spdy/client/SpdyFrameLogger.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/stomp/StompClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/spdy/server/SpdyServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/haproxy/HAProxyProtocolException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/proxy/package-info.java
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jar/io/netty/handler/codec/haproxy/HAProxyProtocolException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/haproxy/HAProxyMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/haproxy/HAProxyMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/proxy/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http2/helloworld/server/HelloWorldHttp1Handler.java
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/spdy/client/SpdyClientStreamIdHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/NativeLibraryLoader.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/OpenSslX509Certificate.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/PendingWriteQueue.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerBenchmarkPage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/WrappedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/RxtxChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/oio/OioByteStreamChannel.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/Digester.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/internal/tcnative/SSLContext.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-channel/kqueue/KQueueDatagramChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/http2/Http2WindowUpdateFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/http2/Http2StreamFrame.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/Codec/ChannelOutboundHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/example/portunification/PortUnificationServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/http/HttpContent.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/http/upload/HttpUploadClient.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/HttpContentEncoder.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/MathUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2HttpAdapterBuilder.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/DefaultChannelHandlerContext.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/AbstractCoalescingBufferQueue.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.
   */

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/PooledHeapByteBuf.java
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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* 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.

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1.473 commons-io 2.5

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<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
<meta name="msapplication-TileImage" content="/icons/msappstore.png" />
<meta name="msapplication-TileColor" content="#0078f7" />
<meta name="apple-mobile-web-app-capable" content="yes" />
<meta name="apple-mobile-web-app-status-bar-style" content="default" />
<meta name="apple-mobile-web-app-title" content="Apache">
<link rel="apple-touch-icon" sizes="57x57" href="/icons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/icons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/icons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/icons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/icons/apple-touch-icon-114x114.png">
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<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
</div>
</nav>
</header>

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1.474 hystrix-core 1.5.18

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- Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!
- <a href="http://www.grierforensics.com/">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.
- TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.
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- Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com/">http://voxeolabs.com/</a>
- <a href="https://www.coreinfrastructure.org/">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.
- Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de/">cryptosource GmbH</a> and <a href="https://www.mtg.de/">media Transfer AG</a> both located in Darmstadt, Germany.
- <a href="https://www.microfocus.com/">Micro Focus</a> - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.

People
Open Source Used in Crosswork Data Gateway 1.1.4

Tito Pena &lt;Fortunato.Pena@AdNovum.CH&gt; - initial RC5 implementation

Michael Lee &lt;tyf@#064;mira.net&gt; - initial RC6 implementation, MD2 implementation

Nuno Santos &lt;nsantos@#064;student.dei.uc.pt&gt; - finding toString bug in certificate object.

Brett Sealey &lt;bretts@#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).

Victor A. Salaman &lt;salaman@#064;teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.

Eran Librach &lt;eranl@#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).

Jonathan Knudsen &lt;jonathan@#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Markus Niedermann &lt;markus.niedermann@softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Mike Benham &lt;moxie@#064;thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

Soren Hilmer &lt;hilmer@#064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.

Uwe Guenther &lt;uwe@#064;cscc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

Markus Bradtke &lt;mab@#064;informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.

Waclaw Sierak &lt;waclaw.sierek@#064;tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.

Ly-Na Phu &lt;lyna.phu@#064;init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.

Stefan K&ouml;psell &lt;sk13@#064;mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see

http://sourceforge.net/projects/jcf/

Carmen Bastiaans &lt;cbastiaa@#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson &lt;tomasg@#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.

Eugen Kuleshov &lt;euxx@#064;hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.

Megan Woods &lt;meganwoods@#064;sekurafile.com&gt; - initial implementation of
ECIES.</li>
<li>Christian Geuer-Pollmann &lt;geuerp#064;apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.</li>
<li>Michael M&amp;#252;hle &lt;michael#064;mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>
<li>Michael Mansell &lt;me#064;michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.</li>
<li>Evike Recker &lt;eike.recker#064;gmx.de&gt; - fixing misspeling of provider reference for RSA/1 and RSA/2.</li>
<li>Chris Southern &lt;CSouthern#064;baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certificate request class.</li>
<li>Sidney Markowitz &lt;sidney#064;sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>
<li>Chris Kerr &lt;ckerr#064;filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.</li>
<li>Mike Bean &lt;mbean#064;lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.</li>
<li>Martin Petraschek &lt;e9526225#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.</li>
<li>Jess Garms &lt;jgarsms#064;yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.</li>
<li>Mike Bremford &lt;mike#064;big.faceless.org&gt; - contributing the initial PKCS7 implementation.</li>
<li>Shankar Srinivasan &lt;ssr002#064;yahoo.com&gt; - S/Mime interoperability testing and debugging.</li>
<li>Stef Hoeben &lt;ilsestef#064;skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.</li>
<li>Klaudiusz Ciosk &lt;kciosk#064;max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.</li>
<li>Thomas Houtekier &lt;Thomas.Houtekier#064;tectrade.net&gt; - S/Mime testing and debugging. Interoperability with Biztalk.</li>
<li>Don Hillsberry &lt;hillsber#064;dialcorp.com&gt; - S/Mime testing and debugging.</li>
<li>Kazuo Furuya &lt;kfuruya#064;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.</li>
<li>Jason Novotny &lt;jdnovotny#064;lbl.gov&gt; - initial work on the openSSL PEM processing.</li>
<li>Joel Hockey &lt;joel.hockey#064;qsipayments.com&gt; - initial work on the openSSL PEM processing.</li>
<li>John Steenbruggen &lt;JohnS#064;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
<li>Justin Chapweske &lt;justin#064;chapweske.com&gt; - ordering patch for Tiger message digest.</li>
<li>John Serock &lt;jserock#064;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>
<li>Sascha Weinreuter &lt;Sascha.Weinreuter#064;cit.de&gt; - fixed SMIME saveChanges() bug.</li>
<li>Andre Wehnert &lt;av5#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing
buffer cleaning issue in buffered block cipher.

- Luigi Lo Iacono &lt;lo_iacono@nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.
- Tim Sakach &lt;ttsakach@#064;certivo.net&gt; - SMIME v2 compatibility patches.
- Marcus Povey &lt;mpovey@#064;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.
- Sebastian Clau&szlig;l &lt;sc2@#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.
- Luigi Lo Iacono &lt;lo_iacono@nue.et-inf.uni-siegen.de&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.
- Casey Marshall &lt;rdsio@#064;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.
- Rick Zeldes &lt;rick.zeldes@eds.com&gt; - initial code for CMS/SIMIME CompressedData.
- Jarek Gawor &lt;gawor@#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.
- Brett Neumeier &lt;random@#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.
- Graham Coles &lt;graham.coles@#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.
- J&ouml;rn von Kattchee &lt;J.Kattchee@seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.
- Matteo Artuso &lt;matarusto@#064;libero.it&gt; - picking up the possible overread in ASN1InputStream.
- Julian Morrison &lt;julian@#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.
- Elmar Sonnenschein &lt;eso@#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.
- J&ouml;rn Schwarze &lt;JSchwarze@ulc.de&gt; - Locale fix for the clean room JCE.
- Bryan Lovquist &lt;bkl@#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.
- Artem Portnoy &lt;Artem_Portnoy@#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.
- Michael Hausler &lt;haeusler@ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.
- Johan Seland &lt;johans@#064;netfonds.no&gt; - general toString for BigInteger class.
- Johannes Nicolai &lt;johannes.nicolai@#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.
- Marc Doberva &lt;marc.doberva@#064;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.
- Jan Dvorak &lt;jan.dvorak@#064;mathan.cz&gt; - initial implementation of the light weight Null block cipher.
- Joe Cohen &lt;jcohen@#064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream what it should have been.
- Chris Long &lt;aclong@#064;ece.cmu.edu&gt; - adding public key decoding to PEMReader.
- Hes Siemelink &lt;hes@#064;izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.
- Stefan Piuu &lt;stefanpiuuro@#064;yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.
- Kaiser Yang &lt;kaiseryang@#064;yahoo.com&gt; - Finding BigInteger loop problem in prime generation.
- Jiri Urbanec &lt;jiri.urbanec@#064;logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().
- Justin Kolb &lt;jkolb@#064;pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.
<li>Ralf Hauser &lt;ralfhauser@#064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>
<li>Michal Dvorak &lt;M_Dvorak@#064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.</li>
<li>Klaus Greve Fiorentini &lt;Klaus@#064cpqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.</li>
<li>Olivier Refalo &lt;Olivier_Refalo@#064fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.</li>
<li>Mariusz Bandola &lt;mariusz.bandola@#064cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>
<li>Brien Oberstein &lt;brien.oberstein@#064transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>
<li>Ian Haywood &lt;ian@#064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>
<li>Jonathan Edwards &lt;s34gull@#064mac.com&gt; - initial support for reading multiple rings from a PGP key file.</li>
<li>Andrew Thornton &lt;mariusz.bandola@#064cryptotech.com.pl&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>
<li>Gregor Leander &lt;gl@#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.</li>
<li>Antoon Bosselaers &lt;Antoon.Bosselaers@#064sat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>
<li>Peter Sylvester &lt;Peter.Sylvester@#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.</li>
<li>Doug &lt;ummmmm@#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>
<li>Francois Staes &lt;fstaes@#064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>
<li>W.R. Dittmer &lt;wdittmer@#064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>
<li>Perez Paz Luis Alberto &lt;laperez@#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.</li>
<li>James Wright &lt;James_Wright@#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>
<li>Jim Ford &lt;jim@#064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hauser &lt;haeusler@#064ponton-consulting.de&gt; - extra aliases for provider.</li>
<li>Sai Pullabhotla &lt;psai@#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller &lt;joseph@#064digweb.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;lars@#064sagendemarker.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen@#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun@#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;petru@#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva@#064wedoconsulting.com&gt; - patch to fix overead issue in BCPGInputStream.</li>
<li>Alpesh Parmar &lt;alps@#064linuxmail.org&gt; - patch for class cast problem in
PGPPublicKey.getSignatures().

- Jay Gengelbach &lt;jgengelbach&#064;#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

- Doug &lt;doug&#064;#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.

- Matthew Mundy &lt;mmundy1&#064;umbc.edu&gt; - infinite loop prevention patch to PKCS552ParametersGenerator.

- Tom Cargill &lt;cargill&#064;#064profcon.com&gt; - spelling patch in provider.

- Breitenstrom Christian &lt;C.Breitenstrom&#064;#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

- Zanotti Mirko &lt;zanotti&#064;#064cad.it&gt; - patch to ordered equality test for X509Name.

- Nicola Scendoni &lt;nscondoni&#064;#064babelps.it&gt; - patch to add sorting to CertPath validation.

- Ville Skytt&auml;auml; &lt;ville.skytt&auml;auml;&#064;#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

- Bruce Gordon &lt;bruce.gordon&#064;savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

- Miles Whiteley &lt;Miles.Whiteley&#064;#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.

- Albert Moliner &lt;amoliner&#064;#064evintia.com&gt; - initial TSP implementation.

- Carlos Lozano &lt;carlos&#064;#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

- Javier Delgadillo &lt;http://www-egee.org&gt; - for making the work available.

- Rolf Schillinger &lt;rolf&#064;#064sisr-wum.de&gt; - initial implementation of Attribute Certificate generation.

- Sergey Bahtin &lt;Sergey_Bahtin&#064;yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

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

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

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

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

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

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

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

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

- Andrew Paterson &lt;andrew.paterson&#064;#064burnssecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.
<li>Vladimir Molotkov &lt;vladimir.n.molotkov&#064intel.com&gt; - extensive provider exception handling compliance testing.</li>
<li>Florin Kollan &lt;adlocflo&#064#064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassiliev &lt;paulvas&#064#064gmail.com&gt; - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman &lt;tom&#064#064tnux.net&gt; - addition of DES-EDC encryption for RSA private keys to PEMWriter.</li>
<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk&#064#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch &lt;Arndt.Hasch&#064#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) &lt;bernd.fix&#064credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee &lt;dmlee&#064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon &lt;md5&#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung &lt;t2cung&#064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz &lt;cschultz&#064#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>Joel Rees &lt;rees&#064#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau &lt;francesc.sau&#064#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee &lt;bugbee&#064#064mac.com&gt; - initial ECNR implementation.</li>
<li>Remi Blancher &lt;Remi.Blancher&#064#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O'Rourke &lt;brianorourke&#064#064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier &lt;andreas.schwier&#064#064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDC MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>
<li>David Josse &lt;david.josse&#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>
<li>Kishimoto Kazuhiko &lt;kazu-k&#064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>
<li>Lawrence Tan &lt;lwrnctan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>
<li>Carlos Valiente &lt;superdupont&#064#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>
<li>Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>
<li>Olaf Keller, &lt;olaf.keller.bc#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>
<li>J&amp;ouml;nrg Eichhorn &lt;eichhorn&amp;#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.
<li>Karsten Ohme &lt;widerstand&#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.</li>

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving the compliance with the NIST CertPath tests.</li>

<li>Carlos Lozano Ruiz &lt;carlos&#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li>

<li>John Alfred Prufrock &lt;j.a.prufrock&#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>

<li>Stefan Neusatz Guilhen &lt;stneusatz&#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>

<li>Marzio Lo Giudice &lt;marzio.logiudice&#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>

<li>Georg Lippold &lt;georg.lippold&#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>

<li>Chris Viles &lt;chris_viles&#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>

<li>Pasi Eronen &lt;Pasi.Eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>


<li>Maria Ivanova &lt;maria.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>

<li>Armin H&auml;berling &lt;arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>

<li>Marius Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>

<li>Xavier Le Vourch &lt;xavier&#064britannysoftware.com&gt; - general code clean ups.</li>

<li>Erik Tews &lt;e_tews&#064cnc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>

<li>Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>

<li>Frank Cornelis &lt;info&#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>

<li>Rui Joaquim &lt;rjoaquim&#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>

<li>David Stacey &lt;DStacey&#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>

<li>Martijn Brinkers &lt;list&#064mitm.nl&gt; - better exception handling in CMS encoding, "just in time" modifications for CRL and Sequence evaluation.</li>

<li>Julius Davies &lt;juliusdavies&#064gmail.com&gt; - additional modes and algorithm support in PEMReader</li>
Matthias &lt;g@#064rtner.de&gt; - GnuPG compatibility changes for PBEGFileParser.

Olga K&lt;uml;ther &lt;olga.kaethler@#064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

N&amp;uuml;rie Mar&amp;uuml;acute; &lt;numaa&amp;#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;js@#064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt; mike@#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt; mstjohns@#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller@#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark@#064nr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene.aff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt; julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;tpknoopp@#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz &lt; gwozdziu@#064rpg.pl&gt; - addition of getTs(a) to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandGenerator, VMPCMac.

Tal Yacobi &lt; tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt; massimiliano.ziccardi@#064gmail.com)&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt; andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

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

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

Gabriele Contini &lt; gcontini@#064hotmail.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEFs.

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

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

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

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

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

Ion Larran&lt;ntilde;aga &lt;ilarrar@#064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

<li>Stefan Meyer &lt;stefan.meyer@ewe.de&gt; backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbie79@064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bouncycastle_pfitz@064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascripit@064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23@064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques &lt;pmahenriques@064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer &lt;lo64@kimmeringer.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>
<li>Richard Farr &lt;trfarr.se@064gmail.com&gt; initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani@064sogei.it&gt; patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;r737lundgren@064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil@064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_a@064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hsrawat@064yahoo.com&gt; fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;roldmann@064trustcenter.de&gt; fix for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Alex Artamonov &lt;alexart.home@064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons &lt;mlyons@064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole &lt;chris_h_cole@064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomas Krivanek &lt;tom@064attack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau@064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kil"arings &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;daronis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith@064chnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation.
Frank Cornelis &lt;info@frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan@dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo@btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;matheis@seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nessche@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfilmalf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa@04insiel.it&gt; contributions to CMS time stamp classes.

Bob McGowan &lt;boab.mcgoo@btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikocinski &lt;J.Sikocinski@gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten@064hp-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.

Tim Buku &lt;tbuku@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

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

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

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

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

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

Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rl6YV7zl2Lv2EUVW99v3yNV3JWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

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

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

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

Brian Carlstrom &lt;bdc@064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher
classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lied &lt;samuel@primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>
<li>Sergio Demian Lerner &lt;sergiolerner@certimix.com&gt; pointing out isInfinity issue in ECDSA Signature verification.</li>
<li>Tim Whittington &lt;tim.whittington@orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInputStream/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.</li>
<li>Marcus Lundblad &lt;marcus.lundblad@primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>
<li>Andrey Zhozhin &lt;zhozhin@xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>
<li>Sergey Tiunov &lt;tt5555d@064gmail.com&gt; initial cut of DVCS classes.</li>
<li>Damian Kolasa &lt;fatredyy@064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.</li>
<li>Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
<li>Daniel Hirscher &lt;dev@064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.</li>
<li>Daniele Ricci &lt;daniele.athome@064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
<li>Matti Aarnio &lt;matti.aarnio@064matics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>
<li>Babak Najafi &lt;bnajafi@064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M &lt;umi.ller@eric.mueller@064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>
<li>Mathias Herberts &lt;mathias.herberts@064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov@064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86@064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrhc@064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis@064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB &lt;axel-vdb@064riseup.net&gt; initial implementation of Shaca2.</li>
<li>Roberto Tyley &lt;gt&gt; further work on completing gralde build.</li>
<li>Waldemar Dick &lt;wdick@064devmue.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward@pdflabs.com&gt; code improvements to ASN1Boolean.
Alex Klyubin &lt;klyubin@064google.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;gsoe.student@064gmail.com&gt; Initial support for block cipher IVs in ISEEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreasc.reiter@064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller@064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli@064arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Jonathan Gillett &lt;gsoc.student@064gmail.com&gt; Initial support for block cipher IVs in ISEEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreasc.reiter@064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

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Andreas Reiter &lt;andreasc.reiter@064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller@064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.
<li>BcAsymmetricKeyWrapper [#BJA-536].</li>
<li>Sergio Giro &lt;sgiro@postgresql.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>
<li>bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen+ bouncingcastle@#064xlxtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificateIssuer &lt;#BJA-538&gt;.</li>
<li>Kai Kramer &lt;k.kramer@bouncycastle.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;b.christof@bouncycastle.com&gt; Fix for IES data length check on decryption.&lt;/li&gt;
<li>Niko &lt;ninfink95&#064gmail.com&gt; Fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, Blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff@bouncycastle.com&gt; BasicConstraintsValidation pathlen fix in PKIX certh path classes.</li>
<li>Lukasz Deputat &lt;lukasz.deputat@#064gmail.com&gt; Fixed bugs in TlsUtils.read methods [#BJA-592].</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjFactory to handle stream packets at start of iterated data.</li>
<li>Andrzejacut; Berenguel &lt;https://github.com/abereneguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>
<li>Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrej Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton &lt;wglanton77@#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>
<li>jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegele &lt;jnaegele@#064gierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;girazoki@wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekowitsch &lt;joerg.sene@bouncycastle.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
<li>Alexandr Krivoshta &lt;wipe@#064ya.ru&gt; N4 calculation fix to GOFB mode.</li>
<li>Artem Storozhuk &lt;storozhuk@#064gmail.com&gt; N4 calculation fix to GOFB mode.</li>
<li>Na Yu &lt;na.yu@#064samsung.com&gt; Constructor patches to CMC PKIData.</li>
<li>Evangelos Karatsiolis &lt;ekaratsiolis@#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>

Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt; Initial XMSS/XMSSMT implementation.


Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk &lt;storojs72@#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser@064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

eksz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

Jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;scott@#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.

Chris McCown &lt;0xchrismccown@#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin Lunkeit, Michael Tautenhahn &lt;ident&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/ekci&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.

Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.

catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.

fgrieu &lt;fgrieu@fgrieu.gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and
CertifiedKeyPair.

Andreas Gadermaier &lt;up.gadermaier&#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for DOST, DST, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.


Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.

Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo &lt;https://github.com/haeminyoo&gt; Javadoc fixes.

Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.

Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palm&amp;eacute;r, TrueSec &lt;Henrik.Palmer&#064;truesec.se&gt; Additional improvements to constant time comparisons.

Ren&amp;eacute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.

THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.

gaelor Bosson &lt;https://github.com/GaelorBosson&gt; Initial implementation of Blake2xs.

gaelaLalire &lt;https://github.com/gaelalalire&gt; Patch for unprotected PGP private keys as SExpr.

im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan &lt;https://github.com/nickhitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.

dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.

Daniel Helid &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweaks to inheritance in JceKeyAgreeRecipient.


Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.

Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.

vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.

Tobias Ospelt &lt;https://github.com/tobias&amp;#064;pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.
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1.477 asm-analysis 5.0.3

1.478 python-pip 9.0.1-2.3~ubuntu1.18.04.1

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* /opt/ws_local/PERMITS_SQL/1014221967_1591897779.29/0/instrumentation-api-0-4-3-sources-jar/com/google/instrumentation/stats/DistributionAggregationDescriptor.java
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* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-jar/org/springframework/beans/factory/support/ConfigurableListableBeanFactory.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-jar/org/springframework/beans/factory/support/LookupOverride.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-jar/org/springframework/beans/propertyeditors/ClassEditor.java
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* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources.jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources.jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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1.496 jackson-module-parameter-names 2.9.9

1.497 byte-buddy byte-buddy-1.9.3

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1.498 protobuf-java-util 3.10.0

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1.499 busybox 1.30.1-r3

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* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-
jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-
jar/javassist/bytecode/BadBytecode.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-
jar/javassist/convert/TransformFieldAccess.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-
jar/javassist/compiler/ast/Member.java
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jar/javassist/tools/web/Webserver.java
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jar/javassist/compiler/ast/Symbol.java
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jar/javassist/util/HotSwapper.java
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jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-
jar/javassist/bytecode/AnnotationsAttribute.java
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jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-
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jar/javassist/compiler/ast/StringL.java
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* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/compiler/JvstTypeChecker.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/SignatureAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/CodeAnalyzer.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/ClassFileWriter.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/tools/rmi/StubGenerator.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/CodeAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/util/proxy/ProxyFactory.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/compiler/CodeGen.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/ConstantAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/compiler/NoFieldException.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/compiler/ast/Pair.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/compiler/ast/AssignExpr.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/tools/rmi/ClassPoolTail.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/runtime/Desc.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/expr/NewArray.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/expr/ExprEditor.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/AttributeInfo.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/expr/ConstructorCall.java
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* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/convert/Transformer.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/analysis/Executor.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/ConstPool.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/runtime/Cflow.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/analysis/Analyzer.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/FieldInfo.java
1.501 grubs signed 1.93.14+2.02 2ubuntu8.13

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: GNU GRUB
Source: http://www.gnu.org/software/grub/
Comment:
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in the grub2 source package: 'apt-get source grub2'.

Files: *
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1.502 x-text 0.3.2
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- **Format:** https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
- **Upstream-Name:** golang.org/x/text
- **Source:** https://go.googlesource.com/text/
- **Comment:**
  - https://github.com/golang/text

**Files:** *

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1.503 jackson-module-paranamer 2.9.9
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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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**1.504 grpc-core 1.24.1**

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* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/GrpcAttributes.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/ProxyDetectorImpl.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/TransportTracer.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/ReflectionLongAdderCounter.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/LongCounterFactory.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/Deframer.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/GzipInflatingBuffer.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/LongCounter.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/FixedObjectPool.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/RetriableStream.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/Framer.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/util/TransmitStatusRuntimeExceptionInterceptor.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/CallTracer.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/ApplicationThreadDeframer.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/TimeProvider.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/AtomicLongCounter.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/AtomicBackoff.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources.jar/io/grpc/internal/OverrideAuthorityNameResolverFactory.java

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jar/io/grpc/internal/ServiceConfigUtil.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
jar/io/grpc/util/SecretRoundRobinLoadBalancerProvider.java
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jar/io/grpc/internal/HedgingPolicy.java
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jar/io/grpc/internal/AutoConfiguredLoadBalancerFactory.java
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jar/io/grpc/internal/ServerCallInfoImpl.java
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jar/io/grpc/internal/ChannelTracer.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
jar/io/grpc/internal/DeprecatedCensusConstants.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
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jar/io/grpc/internal/ForwardingManagedChannel.java
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jar/io/grpc/internal/ServiceConfigInterceptor.java
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jar/io/grpc/internal/ChannelLoggerImpl.java
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jar/io/grpc/internal/ForwardingClientStream.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
jar/io/grpc/internal/ForwardingClientStreamListener.java
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* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/ClientTransportFactory.java
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* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/StatsTraceContext.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/CallCredentialsApplyingTransportFactory.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/ObjectPool.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/SubchannelChannel.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/ForwardingConnectionClientTransport.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/FailingClientTransport.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/SharedResourcePool.java
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1.511 jackson-core 2.10.0

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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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1.513 ncurses 6.1_p20190518-r0

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That's all there is to it!
/* _setjmp is implemented in setjmp.S */

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 */
/**
 * A [@link WebApplicationContext] that can be used to bootstrap itself from a contained
 * [@link ServletWebServerFactory] bean.
 * 
 * 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).
 * 
 * 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 [ServletContextInitializer] interface (most often
* [ServletRegistrationBean]s and/or [FilterRegistrationBean]s). To prevent
* double registration, the use of [ServletContextInitializer] beans will disable
* automatic Servlet and Filter bean registration.

* \(<p>\)*

* Although this context can be used directly, most developers should consider using the
* [AnnotationConfigServletWebServerApplicationContext] or
* [XmlServletWebServerApplicationContext] variants.

* \(@author Phillip Webb\)
* \(@author Dave Syer\)
* \(@since 2.0.0\)
* \(@see AnnotationConfigServletWebServerApplicationContext\)
* \(@see XmlServletWebServerApplicationContext\)
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* /opt/ws_local/PERMITS_SQL/1009549893_1591897252.29/0/spring-boot-2-1-9-release-sources-jar/org/springframework/boot/web/servlet/WebListenerHandler.java
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* /opt/ws_local/PERMITS_SQL/1014221172_1591385371.92/0/spring-test-5-1-11-release-sources-jar/org/springframework/test/web/context/web/AnnotationConfigWebContextLoader.java
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Kotlin compliant `WebTestClient.BodySpec` for expectations on the response body decoded to a single Object, see [ KT-5464](https://youtrack.jetbrains.com/issue/KT-5464) for more details.

@since 5.0.6

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### 1.533 newt 0.19.7 2

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1.535 commons-lang3 2.4
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```java
import org.antlr.v4.parse;
import org.antlr.v4.misc.
import org.antlr.v4.tool.
import java.util.
import java.util.
import java.util.
import java.util.
import java.util.
import java.util.
import java.util.
```
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;

public BlockSetTransformer(TreeNodeStream input, Grammar g) {
    this(input, new RecognizerSharedState());
    this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
    | setAlt
    | ebnfBlockSet
    | blockSet
    ;

    setAlt
    : {inContext("RULE BLOCK")}?;
    ALT {currentAlt = $start;}
    ;

    // (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
ebnfBlockSet
    @after {
        GrammarTransformPipeline.setGrammarPtr(g, $tree);
    }
    : ^ (ebnfSuffix blockSet) -> ^ (ebnfSuffix ^ (BLOCK<BlockAST> ^ (ALT<AltAST> blockSet)))
    ;

ebnfSuffix
    @after {
        Stree = (GrammarAST) adaptor.dupNode($start);
    }
    : OPTIONAL
    | CLOSURE
    | POSITIVE_CLOSURE
    ;

blockSet
    @init {
        boolean inLexer = Grammar.isTokenName(currentRuleName);
    }
    @after {
        GrammarTransformPipeline.setGrammarPtr(g, $tree);
    }
    : {inContext("RULE")}? // top-level: rule block and > 1 alt
    ^ (BLOCK ^(alt=ALT elementOptions? {(AltAST)$alt}.altLabel==null)? setElement[inLexer] ( ^ (ALT elementOptions? setElement[inLexer]) )+)
    -> ^ (BLOCK<BlockAST>[SBLOCK.token] ^ (ALT<AltAST>[SBLOCK.token,"ALT"] ^ (SET[SBLOCK.token, "SET"] setElement+)))

setElement[boolean inLexer]
@after {
GrammarTransformPipeline.setGrammarPtr(g, Stree);
}
:^{(a=STRING_LITERAL elementOptions) !inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| a=STRING_LITERAL !inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1]?
|[!inLexer]?=> ^(TOKEN_REF elementOptions)
|[!inLexer]?=> TOKEN_REF
|[inLexer]?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1]?
};

elementOptions
:^{(ELEMENT_OPTIONS elementOption*)}
;

elementOption
:^{ID
|^{(ASSIGN id=ID v=ID) }^{|(ASSIGN ID v=STRING_LITERAL) }^{|(ASSIGN ID v=ACTION)
|^{(ASSIGN ID v=INT) }
};

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jar/org/antlr/v4/semantics/AttributeChecks.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/decl/Decl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/SerializedATN.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/LabeledOp.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/OutputFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/LabelElementPair.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/RuleFunction.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/tool/ParserASTErrorNode.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/gui/TreeViewer.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/RuleElement.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/org/antlr/v4/gui/PostScriptDocument java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
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jar/org/antlr/v4/parse/ToolANTLRLexer.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/target/GoTarget.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/gui/Trees.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/ast/RangeAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/Parser.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/DTGenerator.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/ATNFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/automata/ATNFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/codegen/source/ScopeParser.java
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 */
/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public int numAlts; // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public rec_rule returns [boolean isLeftRec]
@init
{
currentOuterAltNumber = 1;
}
:^(r=RULE id=RULE_REF {ruleName=$id.getText();})
ruleModifier?
//(ARG_ACTION)? shouldn't allow args, right?
(^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
// ( ^(THROWS .+) )? don't allow
( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
(^(OPTIONS .*)
   | ^(AT ID ACTION) // TODO: copy
)*
ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}

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exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
:^^(BLOCK
( o=outerAlternative
  [if ($o.isLeftRec) $isLeftRec = true;]
  {currentOuterAltNumber++;}
)+
)
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
  : (binary)=> binary
    {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  | (prefix)=> prefix
    {prefixAlt((AltAST)$start, currentOuterAltNumber);}
  | (suffix)=> suffix
    {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  | nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}
    :

binary
:^^( ALT elementOptions? recurse element* recurse epsilonElement* )
    {setAltAssoc((AltAST)$ALT, currentOuterAltNumber);}
prefix
:^\((\text{ALT elementOptions}\?) element+ \text{recurse}\)\(\varepsilon\text{Element}^*\)\)
\{\text{setAltAssoc}\((\text{AltAST})\$\text{ALT},\text{currentOuterAltNumber}());\;

suffix
: ^\(\text{ALT elementOptions}\? \text{recurse}\ element+\)
\{\text{setAltAssoc}\((\text{AltAST})\$\text{ALT},\text{currentOuterAltNumber}());\;

\text{nonLeftRecur}
: ^\((\text{ALT elementOptions}\?) \text{element}^+\)
;

\text{recurse}
:^\(\text{ASSIGN ID} \text{recurseNoLabel}\)
|^\(\text{PLUS ASSIGN ID} \text{recurseNoLabel}\)
|\text{recurseNoLabel}
;

\text{recurseNoLabel}
: \{((\text{CommonTree})\text{input.LT(1)}).\text{getText()}.\text{equals}(\text{ruleName})\)? \text{RULE REF};

token returns [\text{GrammarAST} t=null]
:^\(\text{ASSIGN ID} s=\text{token} \{\text{St} = \$s.t;\}\)
|^\(\text{PLUS ASSIGN ID} s=\text{token} \{\text{St} = \$s.t;\}\)
|\(b=\text{STRING_LITERAL} \{\text{St} = \$b;\}
|^\(b=\text{STRING_LITERAL} \text{elementOptions}\}{\text{St} = \$b;}
|^\(c=\text{TOKEN_REF} \text{elementOptions}\){\text{St} = \$c;}
|\(c=\text{TOKEN_REF} \{\text{St} = \$c;\}
;

\text{elementOptions}
: ^\(\text{ELEMENT OPTIONS} \text{elementOption}^*\)
;

\text{elementOption}
: \text{ID}
| ^\(\text{ASSIGN ID} \text{ID}\)
| ^\(\text{ASSIGN ID} \text{STRING_LITERAL}\)
| ^\(\text{ASSIGN ID} \text{ACTION}\)
| ^\(\text{ASSIGN ID} \text{INT}\)
;

\text{element}
atom
| ^(NOT element)
| ^(RANGE atom atom)
| ^(ASSIGN ID element)
| ^(PLUS_ASSIGN ID element)
  | ^(SET setElement+)
  | RULE_REF
ebnf
epsilonElement
;

epsilonElement
: ACTION
| SEMPR ED
| EPSILON
  | ^(ACTION elementOptions)
  | ^(SEMPRED elementOptions)
;

setElement
: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;

ebnf: block
  | ^(OPTIONAL block)
  | ^(CLOSURE block)
  | ^(POSITIVE_CLOSURE block)
;

block
: ^(BLOCK ACTION? alternative+)
;

alternative
: ^(ALT elementOptions? element+)
;

atom
: ^(RULE_REF ARG_ACTION? elementOptions?)
  | ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
  | ^(TOKEN_REF elementOptions)
| TOKEN_REF
  | ^(WILDCARD elementOptions)
| WILDCARD
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources.jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
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 */

// File : A3Lexer.g
// Author : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version : First implemented as part of ANTLR 3.2 this is the self
//          hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options"
//    vs: "You cannot specify two options{} sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
*  any actions, just build the tree.
*
*  The phases are:
*
*  *A3Lexer.g (this file)
*    A3Parser.g
*    A3Verify.g (derived from A3Walker.g)
*assign.types.g
*define.g
*buildnfa.g
*antlr.print.g (optional)
*codegen.g
*
*  Terence Parr
*  University of San Francisco
*  2005
*  Jim Idle (this v3 grammar)
*  Temporal Wave LLC
*  2009
*/

lexer grammar ANTLRLexer;
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ==============================================================================

// -------
// Options

// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
// options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
// language = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this source and also the generated source
//
//@lexer::header {
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}@members {
public static final int COMMENTS_CHANNEL = 2;

    public CommonTokenStream tokens; // track stream we push to; need for context info
    public boolean isLexerRule = false;

    public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) {
    }

    /** scan backwards from current point in this.tokens list
     * looking for the start of the rule or subrule.
     * Return token or null if for some reason we can't find the start.
     */
    public Token getRuleOrSubruleStartToken() {
        if ( tokens==null ) return null;
        int i = tokens.index();
        int n = tokens.size();
        if ( i>=n ) i = n-1; // seems index == n as we lex
        while ( i>=0 && i<n ) {
            int ttype = tokens.get(i).getType();
            if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
                return tokens.get(i);
            }
            i--;
        }
        return null;
}
// --------
// Comments

// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: //** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments

fragment DOC_COMMENT : ;

COMMENT
@init {

  // Record the start line and offsets as if we need to report an
  // unterminated comment, then we want to show the start of the comment
  // we think is broken, not the end, where people will have to try and work
  // it out themselves.
  //
  int startLine = $line;
  int offset    = getCharPositionInLine();
}

: // Eat the first character only, then see if we have a comment
  // or something silly.

  /* // Comment introducer

  // Single line comment, possibly with embedded src/line directives
  // in a similar style to the C pre-processor, allowing generated
  // code to refer the programmer back to the original source code
  // in case of error.
  //
  /*
   * (`ANTLR')=> "$ANTLR SRC
   | ~(NLCHARS)*
   */
  */

  | // Multi-line comment, which may be a documentation comment
    // if it starts /* (note that we protect against accidentally
    // recognizing a comment /* as a documentation comment
    //
    /*

}
// Should we support embedded multiline comments here?
//
// ( // Pick out end of multiline comment and exit the loop
//   // if we find it.
//
//   { !(input.LA(1) == '*' && input.LA(2) == '/') }?
//     // Anything else other than the non-greedy match of
//     // the comment close sequence
//     //
//     {!*}
//   )

// Look for the comment terminator, but if it is accidentally
// unterminated, then we will hit EOF, which will trigger the
// epsilon alt and hence we can issue an error message relative
// to the start of the unterminated multi-line comment
//
// '*/'

// Unterminated comment!
//
// { // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
//   offset, $pos, (Object)null);
// }

// There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
// { // TODO: Insert error message relative to comment start
//   }
//
// We do not wish to pass the comments in to the parser. If you are
// writing a formatter then you will want to preserve the comments off
// channel, but could just skip and save token space if not.
// $channel=COMMENTS_CHANNEL;
}
ARG_OR_CHARSET

options {k=1;}

| {isLexerRule}? => LEXER_CHAR_SET {type=LEXER_CHAR_SET;}
| {!isLexerRule}? => ARG_ACTION
|
$type=ARG_ACTION;

String t = $text;
t = t.substring(1,t.length()-1);
setText(t);

| fragment

LEXER_CHAR_SET

| T

| '\'

| ("\" ~("\r"\n")

| (~("\r"\n")|"\n")

)*

| T

| ;

// --------------

// Argument specs

// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.

// fragment

ARG_ACTION

| T

| (ARG_ACTION

| ("")=>ACTION_STRING_LITERAL

| (\')=>ACTION_CHAR_LITERAL

| (~("\r"|"\n")|"\n")

)*

| T

| ;
// Actions

// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by { }) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting { } is no additional overhead.

ACTION

:NESTED_ACTION

('?' {$type = SEMPRED;}
 ((WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
  }
 Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
 t.setLine(state.tokenStartLine);
 t.setText(state.text);
 t.setCharPositionInLine(state.tokenStartCharPositionInLine);
 grammarError(ErrorType.V3_GATED_SEMPRED, t);
 )?
 )?
 )?
 ;

// Action structure

// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {

// fragment

NESTED_ACTION

@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.

int startLine = getLine();
int offset   = getCharPositionInLine();
// Action and other blocks start with opening {
//
{ /*
 // And now we can match one of a number of embedded
 // elements within the action until we find a
 // } that balances the opening { . If we do not find
 // the balanced } then we will hit EOF and can issue
 // an error message about the brace that we belive to
 // be mismatched. This won't be foolproof but we will
 // be able to at least report an error against the
 // opening brace that we feel is in error and this will
 // guide the user to the correction as best we can.
 //
 // An embedded [] block
 // NESTED_ACTION

| // What appears to be a literal
| // ACTION_CHAR_LITERAL

| // We have assumed that the target language has C/Java
| // type comments.
| // COMMENT

| // What appears to be a literal
| // ACTION_STRING_LITERAL

| // What appears to be an escape sequence
| // ACTION_ESC

| // Some other single character that is not
| // handled above
| // (~("\"|\'|\'|\'/|\'}\')*)

}

// Correctly balanced closing brace
//

'}'

} // Looks like have an imblanced {} block, report
// with respect to the opening brace.

//
{
// TODO: Report imbalanced {}
    System.out.println("Block starting at line "+startLine + " offset "+(offset+1)+ " contains imbalanced {} or
is missing a ");
}


// Keywords
// --------
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS      : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC  : 'tokens'   WSNLCHARS* '{' ;
CHANNELS     : 'channels' WSNLCHARS* '{' ;

IMPORT       : 'import'               ;
FRAGMENT     : 'fragment'             ;
LEXER        : 'lexer'                ;
PARSER       : 'parser'               ;
GRAMMAR      : 'grammar'              ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED    : 'protected'            ;
PUBLIC       : 'public'               ;
PRIVATE      : 'private'              ;
RETURNS      : 'returns'              ;
LOCALS       : 'locals'               ;
THROWS       : 'throws'               ;
CATCH        : 'catch'                ;
FINALLY      : 'finally'              ;
MODE         : 'mode'                 ;

// ------------
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//

COLON : ':'
{
    // scan backwards, looking for a RULE_REF or TOKEN_REF.
    // which would indicate the start of a rule definition.
    // If we see a LPAREN, then it's the start of the subrule.
    // this.tokens is the token string we are pushing into, so
    // just loop backwards looking for a rule definition. Then
    // we set isLexerRule.
    Token t = getRuleOrSubruleStartToken();
    if ( t!=null ) {
        if ( t.getType()==RULE_REF ) isLexerRule = false;
        else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
    // else must be subrule; don't alter context
    }
}

COLONCOLON : '::'

COMMA : ', '

SEMI : ';

LPAREN : '('

RPAREN : ')'

RARROW : '->'

LT : '<'

GT : '>

ASSIGN : '='

QUESTION : '?'

SYNPRED : '=>'
{
    Token t = new CommonToken(input, state.type, state.channel,
    state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_SYNPRED, t);
    $channel=HIDDEN;
}

STAR : '*'

PLUS : '+'

PLUS_ASSIGN : '+=

OR : '|'

DOLLAR : '$'

DOT : '.'  // can be WILDCARD or DOT in qid or imported rule ref

RANGE : '..'

AT : '@'

POUND : '#'

NOT : '~'
/** Allow unicode rule/token names */
ID:a=NameStartChar NameChar*
{
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
}

fragment
NameChar    :   NameStartChar
    |   '0'..'9'
    |   '_'
    |   '\u00B7'
    |   '\u0300'..'\u036F'
    |   '\u203F'..'\u2040'
    ;

fragment
NameStartChar
    :   'A'..'Z' | 'a'..'z'
    |   '\u00C0'..'\u00D6'
    |   '\u00D8'..'\u00F6'
    |   '\u00F8'..'\u2070'..\u218F
    |   '\u2C00'..'\u2FEF'
    |   '\u3001'..'\u30FF'
    |   '\uF900'..'\uFDCF'
    |   '\uFF00'..'\uFFFF'
    ; // ignores | ['\u10000-'\uEFFFF'] ;

// -----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// they come up in targets.
//
// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like ‘}’ and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ‘ as the string delimiter.
//
// fragment
ACTION_CHAR_LITERAL
:"" (("\")=>ACTION_ESC | ~"" )* ""
;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like ‘}’ and so we eat them
// specifically.
//
// fragment
ACTION_STRING_LITERAL
:"" (("\")=>ACTION_ESC | ~"" )* ""
;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
// fragment
ACTION_ESC
: '\'.
;

// -------
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
// INT : ('0'..'9')+
;

//----------
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
// fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
// TODO: Add target specific code to change the source file name and current line number

//
}
;

// --------------
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL  : '\' ( ( ESC_SEQ | ~ ('\' | 'a'..'z' | 'A'..'Z' | '0'..'9' | 'b'..'f' | 'B'..'F' ) ) )+
   { '+'
      // Unterminated string literal
      
      Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
      t.setLine(state.tokenStartLine);
      t.setText(state.text);
      t.setCharPositionInLine(state.tokenStartCharPositionInLine);
      grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
   }

// A valid hex digit specification

//
fragment HEX_DIGIT : ('0'..'9' | 'A'..'F' ) ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.

//
fragment ESC_SEQ :
   '\w' ( 'b'..'f' | 'B'..'F' )
   |
   // A Java style Unicode escape sequence
   UNICODE_ESC
   |
   // A Swift/Hack style Unicode escape sequence
   UNICODE_EXTENDED_ESC
// An illegal escape sequence
~('b'|'t'|'n'|'f'|'r'|'\'|'u') // \x for any invalid x (make sure to match char here)
{
    Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-2,getCharIndex()-1));
}

fragment
UNICODE_ESC
@init {

    // Flag to tell us whether we have a valid number of
    // hex digits in the escape sequence
    //
    inthCount = 0;
}

    : 'u' // Leadin for unicode escape sequence

    // We now require 4 hex digits. Note though
    // that we accept any number of characters
    // and issue an error if we do not get 4. We cannot
    // use an infinite count such as + because this
    // might consume too many, so we lay out the lexical
    // options and issue an error at the invalid paths.
    //
    ( ( ( (
        HEX_DIGIT { hCount++; }
        ( HEX_DIGIT { hCount++; }
        ( HEX_DIGIT { hCount++; }
            // Four valid hex digits, we are good
            //
            HEX_DIGIT { hCount++; }
        )
    ) // Three valid digits
    )

    ) // Two valid digits
)
// One valid digit
}

// No valid hex digits at all

// Now check the digit count and issue an error if we need to
//
{
if (hCount < 4) {
    Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
    String lastChar = input.substring(badRange.b, badRange.b);
    if (lastChar.codePointAt(0)=='\') {
        badRange.b--;
    }
    String bad = input.substring(badRange.a, badRange.b);
    Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
}
}

;

fragment UNICODE_EXTENDED_ESC
   : 'u{' // Leadin for unicode extended escape sequence

   HEX_DIGIT+ // One or more hexadecimal digits

   '}' // Leadout for unicode extended escape sequence

// Now check the digit count and issue an error if we need to
{
int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
if (numDigits > 6) {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(state.tokenStartCharIndex,getCharIndex()-1));
}
}

;
// Whitespace

// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.

WS
: (          
  
  | \t
  | \n
  
  
  
  )+

{$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.

// fragment
NLCHARS
: \n | \r
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.

// fragment
WSCHARS
:  | \t | \f
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.

// fragment
WSNLCHARS
:  | \t | \f | \n | \r
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
    : \uFEFF { skip(); }
    ;

    // -----------------
    // Illegal Character
    //
    // This is an illegal character trap which is always the last rule in the
    // lexer specification. It matches a single character of any value and being
    // the last rule in the file will match when no other rule knows what to do
    // about the character. It is reported as an error but is not passed on to the
    // parser. This means that the parser to deal with the grammar file anyway
    // but we will not try to analyse or code generate from a file with lexical
    // errors.
    //
    ERRCHAR
    :
    
    { 
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
        grammarError(ErrorType.SYNTAX_ERROR, t, msg);
        state.syntaxErrors++;
        skip();
    }

    Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/ANTLRLexer.g
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg

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*/

tree grammar ATNBuilder;
options {
    language     = Java;
    tokenVocab   = ANTLRParser;
    ASTLabelType = GrammarAST;
    //filter      = true;
}

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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
{
    @members {
        ATNFactory factory;
        public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
            this(input);
            this.factory = factory;
        }
    }

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}
:^(BLOCK
   (^OPTIONS .*)?
    ( a=alternative
       {alts.add($a.p); factory.setCurrentOuterAlt(++alt);} )+
    )
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
}
block|GrammarAST ebnfRoot| returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
  ^(BLOCK (^OPTIONS .*)? (a=alternative {alts.add($a.p);})+)
  {Sp = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  ^(LEXER_ALT_ACTION a=alternative lexerCommands)
  {Sp = factory.lexerAltCommands($a.p,$lexerCommands.p);}
  ^(ALT elementOptions? EPSILON) {Sp = factory.epsilon($EPSILON);}
  | ^(ALT elementOptions? (e=element {els.add($e.p);})+) {Sp = factory.alt(els);}

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  : (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
  {Sp = factory.alt(cmds);}

lexerCommand returns [ATNFactory.Handle cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {Scmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID {Scmd = factory.lexerCommand($ID);}

lexerCommandExpr
: ID
| INT

element returns [ATNFactory.Handle p]
: labeledElement {Sp = $labeledElement.p;}
| atom {Sp = $atom.p;}
| subrule {Sp = $subrule.p;}
| ACTION {Sp = factory.action((ActionAST)$ACTION);}
| SEMPRED {Sp = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .) {Sp = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .) {Sp = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {Sp = $b.p;}
| LEXER_CHAR_SET {Sp = factory.charSetLiteral($start);}

astOperand returns [ATNFactory.Handle p]
: atom {Sp = $atom.p;}

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[^\(\text{\texttt{NOT}}\ \text{blockSet}(true)\)\]{$p = \text{blockSet}.p;\}

labeledElement returns \text{\texttt{ATNFactory.Handle}} p

\text{\texttt{:}}[^\(\text{\texttt{ASSIGN ID element}}\) \{$p = \text{\texttt{factory.label(element}.p);}\}

[^\(\text{\texttt{PLUS_ASSIGN ID element}}\) \{$p = \text{\texttt{factory.listLabel(element}.p);}\}

subrule returns \text{\texttt{ATNFactory.Handle}} p

\text{\texttt{:}}[^\(\text{\texttt{OPTIONAL block[start]}\)\]{$p = \text{block}.p;\}

[^\(\text{\texttt{CLOSURE block[start]}\)\]{$p = \text{block}.p;\}

[^\(\text{\texttt{POSITIVE_CLOSURE block[start]}\)\]{$p = \text{block}.p;\}

| block[null] \{$p = \text{block}.p;\}

blockSet[boolean invert] returns \text{\texttt{ATNFactory.Handle}} p

@init \{\text{\texttt{List<GrammarAST> alts = new ArrayList<GrammarAST>();}}\}

[^\(\text{\texttt{SET (setElement {alts.add(setElement}.start);}\})+\) \{$p = \text{\texttt{factory.set(start, alts, invert);}\}

/** Don't combine with atom otherwise it will build spurious ATN nodes */

setElement

\text{\texttt{:}}[^\(\text{\texttt{STRING_LITERAL .}}\)

[^\(\text{\texttt{TOKEN_REF .}}\)

\text{\texttt{STRING_LITERAL}}

\text{\texttt{TOKEN_REF}}

[^\(\text{\texttt{RANGE a=STRING_LITERAL b=STRING_LITERAL}}\)

| \text{\texttt{LEXER_CHAR_SET}}

atom returns \text{\texttt{ATNFactory.Handle}} p

\text{\texttt{:}}range\{$p = \text{range}.p;\}

[^\(\text{\texttt{DOT ID terminal}}\)\]{$p = \text{\texttt{terminal}.p;}\}

[^\(\text{\texttt{DOT ID ruleref}}\)\]{$p = \text{\texttt{ruleref}.p;}\}

[^\(\text{\texttt{WILDCARD .}}\)\]{$p = \text{\texttt{factory.wildcard(start);}\}

\text{\texttt{WILDCARD}}\{$p = \text{\texttt{factory.wildcard(start);}\}

| blockSet[false] \{$p = \text{\texttt{blockSet}.p;}\}

| terminal \{$p = \text{\texttt{terminal}.p;}\}

| ruleref \{$p = \text{\texttt{ruleref}.p;}\}

ruleref returns \text{\texttt{ATNFactory.Handle}} p

\text{\texttt{:}}[^\(\text{\texttt{RULE_REF ARG_ACTION? (ELEMENT_OPTIONS .)*}}\)\]{$p = \text{\texttt{factory.ruleRef(RULE_REF);}\}

[^\(\text{\texttt{RULE_REF ARG_ACTION?}}\)\]{$p = \text{\texttt{factory.ruleRef(RULE_REF);}\}

\text{\texttt{RULE_REF}}\{$p = \text{\texttt{factory.ruleRef(RULE_REF);}\}

range returns \text{\texttt{ATNFactory.Handle}} p
\[\text{elementOptions}
\]
: \^\texttt{(ELEMENT\_OPTIONS elementOption\*)}
;

\text{elementOption}

: ID
\]
\^\texttt{(ASSIGN ID ID)}
\^\texttt{(ASSIGN ID STRING\_LITERAL)}
\^\texttt{(ASSIGN ID ACTION)}
\^\texttt{(ASSIGN ID INT)}
;

Found in path(s):
* /opt/ws\_local/PERMITS\_SQL/1014221960\_1591897522.14/0/antlr4\_4\_7\_1-sources-
\text{jar/org/antlr/v4/parse/ATNBuilder.g}

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*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
* Parses trees created by ANTLRParser.g.
*
* Rather than have multiple tree grammars, one for each visit, I'm
* creating this generic visitor that knows about context. All of the
* boilerplate pattern recognition is done here. Then, subclasses can
* override the methods they care about. This prevents a lot of the same
* context tracking stuff like "set current alternative for current
* rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
  language      = Java;
  tokenVocab    = ANTLRParser;
  ASTLabelType  = GrammarAST;
}

//@header {
/*
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IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }

public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    } catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if (e instanceof InvocationTargetException) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if (errMgr==null) {
            System.err.println("can't find rule "+ruleName+" in ")
        }
    }
}
" or tree structure error: "+t.toStringTree()
);
e.printStackTrace(System.err);
}
else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
}
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,
    GrammarAST options, ActionAST locals,
    List<GrammarAST> actions,
    GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }
public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) {} 
public void lexerCommand(int outerAltNumber, GrammarAST ID) {} 

protected void enterGrammarSpec(GrammarAST tree) {} 
protected void exitGrammarSpec(GrammarAST tree) {} 

protected void enterPrequelConstructs(GrammarAST tree) {} 
protected void exitPrequelConstructs(GrammarAST tree) {} 

protected void enterPrequelConstruct(GrammarAST tree) {} 
protected void exitPrequelConstruct(GrammarAST tree) {} 

protected void enterOptionsSpec(GrammarAST tree) {} 
protected void exitOptionsSpec(GrammarAST tree) {} 

protected void enterOption(GrammarAST tree) {} 
protected void exitOption(GrammarAST tree) {} 

protected void enterOptionValue(GrammarAST tree) {} 
protected void exitOptionValue(GrammarAST tree) {} 

protected void enterDelegateGrammars(GrammarAST tree) {} 
protected void exitDelegateGrammars(GrammarAST tree) {} 

protected void enterDelegateGrammar(GrammarAST tree) {} 
protected void exitDelegateGrammar(GrammarAST tree) {} 

protected void enterTokensSpec(GrammarAST tree) {} 
protected void exitTokensSpec(GrammarAST tree) {} 

protected void enterTokenSpec(GrammarAST tree) {} 
protected void exitTokenSpec(GrammarAST tree) {} 

protected void enterChannelsSpec(GrammarAST tree) {} 
protected void exitChannelsSpec(GrammarAST tree) {} 

protected void enterChannelSpec(GrammarAST tree) {} 
protected void exitChannelSpec(GrammarAST tree) {} 

protected void enterAction(GrammarAST tree) {} 
protected void exitAction(GrammarAST tree) {} 

protected void enterRules(GrammarAST tree) {} 
protected void exitRules(GrammarAST tree) {} 

protected void enterMode(GrammarAST tree) {} 
protected void exitMode(GrammarAST tree) {}
protected void enterLexerRule(GrammarAST tree) {
}
protected void exitLexerRule(GrammarAST tree) {
}

protected void enterRule(GrammarAST tree) {
}
protected void exitRule(GrammarAST tree) {
}

protected void enterExceptionGroup(GrammarAST tree) {
}
protected void exitExceptionGroup(GrammarAST tree) {
}

protected void enterExceptionHandler(GrammarAST tree) {
}
protected void exitExceptionHandler(GrammarAST tree) {
}

protected void enterFinallyClause(GrammarAST tree) {
}
protected void exitFinallyClause(GrammarAST tree) {
}

protected void enterLocals(GrammarAST tree) {
}
protected void exitLocals(GrammarAST tree) {
}

protected void enterRuleReturns(GrammarAST tree) {
}
protected void exitRuleReturns(GrammarAST tree) {
}

protected void enterThrowsSpec(GrammarAST tree) {
}
protected void exitThrowsSpec(GrammarAST tree) {
}

protected void enterRuleAction(GrammarAST tree) {
}
protected void exitRuleAction(GrammarAST tree) {
}

protected void enterRuleModifier(GrammarAST tree) {
}
protected void exitRuleModifier(GrammarAST tree) {
}

protected void enterLexerRuleBlock(GrammarAST tree) {
}
protected void exitLexerRuleBlock(GrammarAST tree) {
}

protected void enterRuleBlock(GrammarAST tree) {
}
protected void exitRuleBlock(GrammarAST tree) {
}

protected void enterLexerOuterAlternative(AltAST tree) {
}
protected void exitLexerOuterAlternative(AltAST tree) {
}

protected void enterOuterAlternative(AltAST tree) {
}
protected void exitOuterAlternative(AltAST tree) {
}

protected void enterLexerAlternative(GrammarAST tree) {
}
protected void exitLexerAlternative(GrammarAST tree) {
}

protected void enterLexerElements(GrammarAST tree) {
}
protected void exitLexerElements(GrammarAST tree) {
}
protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }
protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex) {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}

grammarSpec
@init {
    enterGrammarSpec($start);
}

@after {
    exitGrammarSpec($start);
}

:   ^(	GRAMMAR ID {grammarName=$ID.text;}  
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}  
    prequelConstructs  
    {finishPrequels($prequelConstructs.firstOne);}  
    rules mode*  
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
}
prequelConstructs returns [GrammarAST firstOne=null]
@init {
enterPrequelConstructs($start);
}
@after {
exitPrequelConstructs($start);
}
:{firstOne=$start;} prequelConstruct+
;
;

prequelConstruct
@init {
enterPrequelConstructs($start);
}
@after {
exitPrequelConstructs($start);
}
:
| optionsSpec
| delegateGrammars
| tokensSpec
| channelsSpec
| action
;

optionsSpec
@init {
enterOptionsSpec($start);
}
@after {
exitOptionsSpec($start);
}
:^{(OPTIONS option*)
;
;

option
@init {
enterOption($start);
boolean rule = inContext("RULE ...");
boolean block = inContext("BLOCK ...");
}
@after {
exitOption($start);
}
:"^a=ASSIGN ID v=optionValue)
if ( block ) blockOption($ID, $v.start); // most specific first
else if ( rule ) ruleOption($ID, $v.start);
else grammarOption($ID, $v.start);
}

optionValue returns [String v]
@init {
enterOptionValue($start);
$v = $start.token.getText();
}
@after {
exitOptionValue($start);
}

:   ID
|   STRING_LITERAL
|   INT
;

delegateGrammars
@init {
enterDelegateGrammars($start);
}
@after {
exitDelegateGrammars($start);
}

:   ^(IMPORT delegateGrammar+)
;

delegateGrammar
@init {
enterDelegateGrammar($start);
}
@after {
exitDelegateGrammar($start);
}

:   ^(ASSIGN label=ID id=ID){importGrammar($label, $id);}
|   id=ID{importGrammar(null, $id);}
;

tokensSpec
@init {
enterTokensSpec($start);
}
@after {
exitTokensSpec($start);
}
: ^(TOKENS_SPEC tokenSpec+)
:

tokenSpec
@init {
enterTokenSpec($start);
}
@after {
exitTokenSpec($start);
}
:ID{defineToken($ID);}
:

cannelsSpec
@init {
enterChannelsSpec($start);
}
@after {
exitChannelsSpec($start);
}
: ^(CHANNELS channelSpec+)
:

cannelsSpec
@init {
enterChannelSpec($start);
}
@after {
exitChannelSpec($start);
}
:ID{defineChannel($ID);}
:

action
@init {
enterAction($start);
}
@after {
exitAction($start);
}
:^AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION};
:

rules
@init {
enterRules($start);
}
@after {
exitRules($start);
}
: ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
;

mode
@init {
enterMode($start);
}
@after {
exitMode($start);
}
:^ ( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

lexerRule
@init {
enterLexerRule($start);
List<GrammarAST> mods = new ArrayList<GrammarAST>();
currentOuterAltNumber=0;
}
@after {
exitLexerRule($start);
}
:^ (RULE TOKEN_REF {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
{discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
lexerRuleBlock
{
finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
currentRuleName=null; currentRuleAST=null;
}
}
;

rule
@init {
enterRule($start);
List<GrammarAST> mods = new ArrayList<GrammarAST>();
List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
currentOuterAltNumber=0;
}
@after {
exitRule($start);
}
:^ (RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
(RULEMODIFIERS m=ruleModifier{mods.add($m.start);})+)?
ARG_ACTION?
    ret=ruleReturns?
    thr=throwsSpec?
    loc=locals?
    (opts=optionsSpec
     | a=ruleAction {actions.add($a.start);}
    )*
    {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
        $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
        $thr.start, $opts.start,
        $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
        actions, (GrammarAST)input.LT(1));}
    ruleBlock exceptionGroup
    {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
    ;

exceptionGroup
    @init {
        enterExceptionGroup($start);
    }
    @after {
        exitExceptionGroup($start);
    }
    : exceptionHandler* finallyClause?
    ;

exceptionHandler
    @init {
        enterExceptionHandler($start);
    }
    @after {
        exitExceptionHandler($start);
    }
    : (^CATCH ARG_ACTION ACTION){ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}?
    ;

finallyClause
    @init {
        enterFinallyClause($start);
    }
    @after {
        exitFinallyClause($start);
    }
    : (^FINALLY ACTION){finallyAction((ActionAST)$ACTION);}?
    ;

locals
@init {
enterLocals($start);
}
@after {
exitLocals($start);
}
:^{(LOCALS ARG_ACTION)
;
}

ruleReturns
@init {
enterRuleReturns($start);
}
@after {
exitRuleReturns($start);
}
:^{(RETURNS ARG_ACTION)
;
}

throwsSpec
@init {
enterThrowsSpec($start);
}
@after {
exitThrowsSpec($start);
}
:^{(THROWS ID+)
;
}

ruleAction
@init {
enterRuleAction($start);
}
@after {
exitRuleAction($start);
}
:^{(AT ID ACTION)
;
}

ruleModifier
@init {
enterRuleModifier($start);
}
@after {
exitRuleModifier($start);
}
:^{PUBLIC
| PRIVATE
lexerRuleBlock
@init {
enterLexerRuleBlock($start);
}
@after {
exitLexerRuleBlock($start);
}
:^BLOCK
({
currentOuterAltRoot = (GrammarAST)input.LT(1);
currentOuterAltNumber++;
}
lexerOuterAlternative
)+
)
;

ruleBlock
@init {
enterRuleBlock($start);
}
@after {
exitRuleBlock($start);
}
:^BLOCK
({
currentOuterAltRoot = (GrammarAST)input.LT(1);
currentOuterAltNumber++;
}
outerAlternative
)+
)
;

lexerOuterAlternative
@init {
enterLexerOuterAlternative((AltAST)$start);
discoverOuterAlt((AltAST)$start);
}
@after {
finishOuterAlt((AltAST)$start);
exitLexerOuterAlternative((AltAST)$start);
}
:lexerAlternative
outerAlternative
@init {
enterOuterAlternative((AltAST)$start);
discoverOuterAlt((AltAST)$start);
}
@after {
finishOuterAlt((AltAST)$start);
exitOuterAlternative((AltAST)$start);
}
:alternative
;

lexerAlternative
@init {
enterLexerAlternative($start);
}
@after {
exitLexerAlternative($start);
}
:^:(LEXER_ALT_ACTION lexerElements lexerCommand+)
   | lexerElements
   ;

lexerElements
@init {
enterLexerElements($start);
}
@after {
exitLexerElements($start);
}
:^:(ALT lexerElement+)
;

lexerElement
@init {
enterLexerElement($start);
}
@after {
exitLexerElement($start);
}
:lexedLexerElement
| lexerAtom
| lexerSubrule
  | ACTION{actionInAlt((ActionAST)$ACTION);}
  | SEMPRED{sempredInAlt((PredAST)$SEMPRED);}
labeledLexerElement
@init {
enterLabeledLexerElement($start);
}
@after {
exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;

lexerBlock
@init {
enterLexerBlock($start);
}
@after {
exitLexerBlock($start);
}
: ^(BLOCK optionsSpec? lexerAlternative+)
;

lexerAtom
@init {
enterLexerAtom($start);
}
@after {
exitLexerAtom($start);
}
: terminal
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref

actionElement
@init {
enterActionElement($start);
}
@after {
exitActionElement($start);
}
::ACTION
  | ^::ACTION elementOptions)
  | SEMPRED
  | ^::SEMPRED elementOptions)
  
alternative
  @init {
    enterAlternative((AltAST)$start);
    discoverAlt((AltAST)$start);
  }
  @after {
    finishAlt((AltAST)$start);
    exitAlternative((AltAST)$start);
  }
  ^::ALT elementOptions? element+
  | ^::ALT elementOptions? EPSILON

lexerCommand
  @init {
    enterLexerCommand($start);
  }
  @after {
    exitLexerCommand($start);
  }
  ^::LEXER_ACTION_CALL ID lexerCommandExpr
    {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
  | ID
    {lexerCommand(currentOuterAltNumber, $ID);}

lexerCommandExpr
  @init {
    enterLexerCommandExpr($start);
  }
  @after {
    exitLexerCommandExpr($start);
  }
  ::ID
  | ::INT

element
  @init {
    enterElement($start);
  }
@after {
exitElement($start);
}
:labeledElement
|atom
|subrule
|  ACTION {actionInAlt((ActionAST)$ACTION);} 
|  SEMPRED {sempredInAlt((PredAST)$SEMPRED);} 
|  ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);} 
|  ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);} 
|range
|^(NOT blockSet)
|^(NOT block)
;

astOperand
@init {
enterAstOperand($start);
}
@after {
exitAstOperand($start);
}
:atom
|^(NOT blockSet)
|^(NOT block)
;

labeledElement
@init {
enterLabeledElement($start);
}
@after {
exitLabeledElement($start);
}
:^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;

subrule
@init {
enterSubrule($start);
}
@after {
exitSubrule($start);
}
:^((blockSuffix block) | block)
| block
;
lexerSubrule
@init {
  enterLexerSubrule($start);
}
@after {
  exitLexerSubrule($start);
}
:^{blockSuffix lexerBlock}
| lexerBlock
  ;

blockSuffix
@init {
  enterBlockSuffix($start);
}
@after {
  exitBlockSuffix($start);
}
: ebnfSuffix
  ;

ebnfSuffix
@init {
  enterEbnfSuffix($start);
}
@after {
  exitEbnfSuffix($start);
}
:OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
  ;

atom
@init {
  enterAtom($start);
}
@after {
  exitAtom($start);
}
:^{DOT ID terminal}
[^{DOT ID ruleref}
  |^{WILDCARD elementOptions}{wildcardRef($WILDCARD);}
  |WILDCARD{wildcardRef($WILDCARD);}
  | terminal
  | blockSet
  | ruleref
  ;
blockSet
@init {
enterBlockSet($start);
}
@after {
exitBlockSet($start);
}
:^{(SET setElement+)}
;

setElement
@init {
enterSetElement($start);
}
@after {
exitSetElement($start);
}
:^{(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}}
[^{TOKEN_REF elementOptions} {tokenRef((TerminalAST)$TOKEN_REF);}
[STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
[TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
[^{RANGE a=STRING_LITERAL b=STRING_LITERAL}
{stringRef((TerminalAST)$a);
stringRef((TerminalAST)$b);
}]
| LEXER_CHAR_SET
;

block
@init {
enterBlock($start);
}
@after {
exitBlock($start);
}
:^{(BLOCK optionsSpec? ruleAction* ACTION? alternative+)}
;

ruleref
@init {
enterRuleref($start);
}
@after {
exitRuleref($start);
}
:^{(RULE_REF arg=ARG_ACTION? elementOptions?)}
{ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
if ( $arg!=null ) actionInAlt((ActionAST)$arg);
}
;

range
@init {
enterRange($start);
}
@after {
exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
enterTerminal($start);
}
@after {
exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
{stringRef((TerminalAST)$STRING_LITERAL);}
|STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
|^TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
|TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
enterElementOptions($start);
}
@after {
exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
elementOption[GrammarASTWithOptions t]
@init {
enterElementOption($start);
}
@after {
exitElementOption($start);
}
: ID {elementOption(t, $ID, null);}
^(ASSIGN $id=ID $v=ID)	{elementOption(t, $id, $v);} 
^(ASSIGN $ID v=STRING_LITERAL)	{elementOption(t, $ID, $v);} 
^(ASSIGN $ID v=ACTION)	{elementOption(t, $ID, $v);} 
^(ASSIGN $ID v=INT)	{elementOption(t, $ID, $v);} 

; 

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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*/

tree grammar SourceGenTriggers;
options {
  language    = Java;
  tokenVocab  = ANTLRParser;
ASTLabelType = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import java.util.HashMap;

}

@members {
public OutputModelController controller;
    public boolean hasLookaheadBlock;
    public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
        this(input);
        this.controller = controller;
    }
}

dummy : block[null, null] ;

    ^(blk=BLOCK (^(OPTIONS .+))?)
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
    alternative {alts.add($alternative.altCodeBlock);}+
    }
    if ( alts.size()==1 && ebnfRoot==null) return alts;
    if ( ebnfRoot==null ) {
        $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
    }
    else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
        $omos = DefaultOutputModelFactory.list(choice);
    }
    }
    alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    boolean outerMost = inContext("RULE BLOCK");
}
@after {
    controller.finishAlternative($altCodeBlock, $ops, outerMost);
}

:a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
    // set alt if outer ALT only (the only ones with alt field set to Alternative object)
    AltAST altAST = (AltAST)retval.start;
    if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}

List<SrcOp> elems = new ArrayList<SrcOp>();
// TODO: shouldn't we pass $start to controller.alternative()?
$altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
$altCodeBlock.ops = $ops = elems;
controller.setCurrentBlock($altCodeBlock);

^[ ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos); }+ ) ]

{|^ (ALT elementOptions? EPSILON) |
    { $altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost); }
}

element returns [List<? extends SrcOp> omos]
:labeledElement{ $omos = $labeledElement.omos; } |
    atom[null,false] { $omos = $atom.omos; } |
    subrule{ $omos = $subrule.omos; } |
    ACTION{ $omos = controller.action((ActionAST)$ACTION); } |
    SEMPRED{ $omos = controller.sempred((ActionAST)$SEMPRED); } |
    ^(ACTION elementOptions) { $omos = controller.action((ActionAST)$ACTION); } |
    ^(SEMPRED elementOptions) { $omos = controller.sempred((ActionAST)$SEMPRED); }

:labeledElement returns [List<? extends SrcOp> omos]
:^ (ASSIGN ID atom[$ID,false] ) { $omos = $atom.omos; } |
|^ (PLUS_ASSIGN ID atom[$ID,false]) { $omos = $atom.omos; } |
|^ (ASSIGN ID block[$ID,null] ) { $omos = $block.omos; } |
|^ (PLUS_ASSIGN ID block[$ID,null]) { $omos = $block.omos; }

:subrule returns [List<? extends SrcOp> omos]
:^ (OPTIONAL b=block[null,$OPTIONAL])

{ $omos = $block.omos; } |
|^ (op=CLOSURE b=block[null,null])
List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
SrcOp blk = $b.omos.get(0);
CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
alt.addOp(blk);
alts.add(alt);
SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
    hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
$omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null]{$omos = $block.omos;}
;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
    ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
    ;
/*
  setElement
  :STRING_LITERAL
  [TOKEN_REF
  |^(RANGE STRING_LITERAL STRING_LITERAL)
  ;
  */

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
    ^(NOT a=atom[$label, true]){$omos = $a.omos;}
|range[label]{$omos = $range.omos;}
    ^(DOT ID terminal[$label])
    ^(DOT ID ruleref[$label])
    |^(WILDCARD .){$omos = controller.wildcard($WILDCARD, $label);}
|WILDCARD{ $omos = controller.wildcard($WILDCARD, $label);}
    | terminal[label]{$omos = $terminal.omos;}
    | ruleref[label]{$omos = $ruleref.omos;}
|blockSet[label, invert]{$omos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
    ^(RULE_REF ARG_ACTION? elementOptions?){$omos = controller.ruleRef($RULE_REF, $label, $ARG_ACTION);}
    ;

range[GrammarAST label] returns [List<SrcOp> omos]
    ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
terminal[GrammarAST label] returns [List<SrcOp> omos]
   : ^(STRING_LITERAL .) {somos = controller.stringRef($STRING_LITERAL, $label);}
   | STRING_LITERAL {somos = controller.stringRef($STRING_LITERAL, $label);}
   | ^(TOKEN_REF ARG_ACTION .) {somos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
   | ^(TOKEN_REF .) {somos = controller.tokenRef($TOKEN_REF, $label, null);}
   | TOKEN_REF {somos = controller.tokenRef($TOKEN_REF, $label, null);}

elementOptions
   :^(ELEMENT_OPTIONS elementOption+)

elementOption
   :ID
   | ^(ASSIGN ID ID)
   | ^(ASSIGN ID STRING_LITERAL)
   | ^(ASSIGN ID ACTION)
   | ^(ASSIGN ID INT)

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lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}

/** force filtering (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}

// ignore comments right away

COMMENT
    :   '/''/ ( options {greedy=false;} : .)* '/''/ {delegate.text($Text);}
    ;
LINE_COMMENT
   :  '//' (~('\\'|'/')* 'n'? '\r' 'n') {delegate.text($text);} ;

SET_NONLOCAL_ATTR
   : 'S' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ;' {
       delegate.setNonLocalAttr($text, $x, $y, $expr);
   } ;

NONLOCAL_ATTR
   : 'S' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
       ;

QUALIFIED_ATTR
   : 'S' x=ID '.' y=ID {input.LA(1)!='(')? {delegate.qualifiedAttr($text, $x, $y);}
       ;

SET_ATTR
   : 'S' x=ID WS? '=' expr=ATTR_VALUE_EXPR ;' {
       delegate.setAttr($text, $x, $expr);
   } ;

ATTR
   : 'S' x=ID {delegate.attr($text, $x);}
       ;

// Anything else is just random text

TEXT
   @init {StringBuilder buf = new StringBuilder();}
   @after {delegate.text(buf.toString());}
   : (c=~('\\'|'$') {buf.append((char)$c);}
      |'\$' {buf.append('$');}
      |'\' c=~('$') {buf.append('\').append((char)$c);}
      |(!isIDStartChar(input.LA(2))){ => '$' {buf.append('$');}
      )*+

fragment
ID   : ('a'..'z'|'A'..'Z'|'_' ) ( 'a'..'z'|'A'..'Z'|'0'..'9'|'_' )*
      ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */

fragment
ATTR_VALUE_EXPR
:.="=' (~';')*
;

fragment
WS: (' '|'	'|'
'|'')+
;

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1.545 ruby-minitest 5.10.3-1

1.546 lumberjack 2.0.0

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1.547 libnuma 2.0.11 2.1ubuntu0.1

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This package was debianized by Ian Wienand <ianw@gelato.unsw.edu.au>

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1.552 httpcomponents-httpmime 4.2.3

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* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/LongCounterFactory.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/InternalChannelStats.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/Framer.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/StreamTracer.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/ProxyParameters.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/
jar/io/grpc/InternalInstrumented.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
jar/io/grpc/internal/FixedObjectPool.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/LogId.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
jar/io/grpc/internal/GzipInflatingBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/Instrumented.java

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jar/io/grpc/InternalDecompressorRegistry.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
jar/io/grpc/internal/StatsTraceContext.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
jar/io/grpc/InternalWithLogId.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
jar/io/grpc/internal/ObjectPool.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
jar/io/grpc/internal/CallCredentialsApplyingTransportFactory.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
jar/io/grpc/internal/ChannelExecutor.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
jar/io/grpc/BindableService.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
jar/io/grpc/internal/MethodDescriptor.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
jar/io/grpc/util/RoundRobinLoadBalancerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-
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* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/AbstractClientStream.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/AbstractStream.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/AbstractClientStream.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/AbstractStream.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/AbstractServerImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/ServerMethodImplDefinition.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/KnownLength.java
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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
<tr>
<td></td>
<td>@ignore</td>
</tr>
<tr>
<td></td>
<td>@c Set file name and title for man page.</td>
</tr>
<tr>
<td></td>
<td>@setfilename gpl</td>
</tr>
<tr>
<td></td>
<td>@settitle GNU General Public License</td>
</tr>
<tr>
<td></td>
<td>@c man begin SEEALSO</td>
</tr>
<tr>
<td></td>
<td>gfdl(7), fsf-funding(7).</td>
</tr>
<tr>
<td></td>
<td>@c man end</td>
</tr>
<tr>
<td></td>
<td>@c man begin COPYRIGHT</td>
</tr>
<tr>
<td></td>
<td>Copyright @copyright{} 2007 Free Software Foundation, Inc.</td>
</tr>
</tbody>
</table>
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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functions (ten lines or less in length), then the use of the object
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## Source Code

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1.569 shim-signed
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0ubuntu1

1.569.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
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Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function:
```scala
val x: ((Int, Int) => Int) = (((a, b)) => a)
```
^  
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val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```
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three errors found

1.574 java-classmate 1.4.0

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1.575 slf4j-log4j 1.7.24

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1.576 libasyncncns 237 3ubuntu10.29
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Upstream-Name: libasyncncns
Upstream-Contact: Lennart Poettering <mznflapaf@0pointer.de>
Source: http://0pointer.de/lennart/projects/libasyncncns/

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1.577 nspr 4.18 1ubuntu1

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1.579 mokutil 0.3.0+1538710437.fb6250f 0ubuntu2~18.04.1

1.580 yang-data-util 1.2.3
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1.582 systemd-shim 237 3ubuntu10.31

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From: Michael Biebl <biebl@debian.org>
Date: Sun, 17 Dec 2017 00:31:20 +0100
Subject: Revert "udev-rules: Permission changes for /dev/dri/renderD*

This would introduce a new system group "render". As the name is rather
generic, this needs further discussion first, so revert this change for
now.

This reverts commit 4e15a7343cb389e97f3eb4f49699161862d8b8b2.
---
meson.build                     | 2 --
meson_options.txt              | 2 --
rules/50-udev-default.rules.in| 5 +-----
src/login/70-uaccess.rules     | 2 +-,
4 files changed, 2 insertions(+), 9 deletions(-)

diff --git a/meson.build b/meson.build
index c734561..b9e59ec 100644
--- a/meson.build
+++ b/meson.build
@@ -753,7 +753,6 @@ if get_option('wheel-group')
 endif

 subsists.set('DEV_KVM_MODE', get_option('dev-kvm-mode'))
-substst.set('GROUP_RENDER_MODE', get_option('group-render-mode'))
kill_user_processes = get_option('default-kill-user-processes')
conf.set10('KILL_USER_PROCESSES', kill_user_processes)

status = |
- {0}.format(container_uid_base_min),
- {0}.format(container_uid_base_max),
- {0}.format(get_option('dev-kvm-mode')),
- {0}.format(get_option('group-render-mode'))
- {0}.format(get_option('certificate-root'))
- {0}.format(support_url)
- {0}.format(nobody_user)

--- a/meson_options.txt
+++ b/meson_options.txt
@@ -177,8 +177,6 @@ option('nobody-group', type : 'string',
                   value : 'nobody')
         description : '/dev/kvm access mode')
 -option('group-render-mode', type : 'string', value : '0666',
                 description : 'Access mode for devices owned by render group (e.g. /dev/dri/renderD*, /dev/kfd).')
+option('default-kill-user-processes', type : 'boolean',
              description : 'the default value for KillUserProcesses= setting')

@@ -31,14 +31,11 @@ SUBSYSTEM="input", KERNEL="js[0-9]*", MODE="0664"

SUBSYSTEM=="video4linux", GROUP="video"
SUBSYSTEM=="graphics", GROUP="video"
-SUBSYSTEM=="drm", KERNEL!="renderD***", GROUP="video"
+SUBSYSTEM=="drm", GROUP="video"
SUBSYSTEM=="dvb", GROUP="video"
SUBSYSTEM=="media", GROUP="video"
SUBSYSTEM=="cec", GROUP="video"

-SUBSYSTEM=="drm", KERNEL=="renderD***", GROUP="render", MODE="@GROUP_RENDER_MODE@"
-SUBSYSTEM=="kfd", GROUP="render", MODE="@GROUP_RENDER_MODE@"

- SUBSYSTEM=="sound", GROUP="audio", \
  OPTIONS+="static_node= snd/seq", OPTIONS+="static_node= snd/timer"

diff --git a/rules/50-udev-default.rules.in b/rules/50-udev-default.rules.in
index bd4c215..549a4f0 100644
--- a/rules/50-udev-default.rules.in
+++ b/rules/50-udev-default.rules.in
@@ -31,14 +31,11 @@ SUBSYSTEM="input", KERNEL="js[0-9]*", MODE="0664"

SUBSYSTEM=="video4linux", GROUP="video"
SUBSYSTEM=="graphics", GROUP="video"
-SUBSYSTEM=="drm", KERNEL!="renderD***", GROUP="video"
+SUBSYSTEM=="drm", GROUP="video"
SUBSYSTEM=="dvb", GROUP="video"
SUBSYSTEM=="media", GROUP="video"
SUBSYSTEM=="cec", GROUP="video"

-SUBSYSTEM=="drm", KERNEL=="renderD***", GROUP="render", MODE="@GROUP_RENDER_MODE@"
-SUBSYSTEM=="kfd", GROUP="render", MODE="@GROUP_RENDER_MODE@"

- SUBSYSTEM=="sound", GROUP="audio", \
  OPTIONS+="static_node= snd/seq", OPTIONS+="static_node= snd/timer"

diff --git a/src/login/70-uaccess.rules b/src/login/70-uaccess.rules
index f2c838f..f3a2e66 100644
--- a/src/login/70-uaccess.rules
+++ b/src/login/70-uaccess.rules

@@ -45,7 +45,7 @@ SUBSYSTEM=="firewire", ATTR{units}="*0x00a02d:0x010001*", TAG="uaccess"
 SUBSYSTEM=="firewire", ATTR{units}="*0x00a02d:0x014001*", TAG="uaccess"

 # DRI video devices
-SUBSYSTEM=="drm", KERNEL=="card*", TAG="uaccess"
+SUBSYSTEM=="drm", KERNEL=="card*|renderD*", TAG="uaccess"

 # smart-card readers
 ENV{ID_SMARTCARD_READER}="?*", TAG="uaccess"
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1.587 scala-logging 3.9.0

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1.588 jnr-x86asm 1.0.2

1.589 open-feign-forms-core 3.8.0

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1.590 jvm-hotspot-amazon 1.8.0u232

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 */

package com.sun.javafx.runtime.eula;

/**
 * A simple interface to show the End User License Agreement(EULA) dialog
public interface Eula {

    /**
     * display the eula dialog, if not already shown
     * @return false if eula was rejected, true otherwise
     */
    public boolean show();

    /**
     * accept the EULA, so no EULA dialog will be displayed
     */
    public void accept();
}

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package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();
}
package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a {@code java.io.FilePermission} object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * {@code java.lang.RuntimePermission},
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the {@code implies} method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 */
* Thus, this is not an equality test, but rather more of a
* subset test.
*
* <P> Permission objects are similar to String objects in that they
* are immutable once they have been created. Subclasses should not
* provide methods that can change the state of a permission
* once it has been created.
* *
* @see Permissions
* @see PermissionCollection
*
* @author Marianne Mueller
* @author Roland Schemers
*/

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * { @code SecurityManager.checkPermission} method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     *
     * @param object the object being guarded (currently ignored).
     *
     * @throws SecurityException
     *        if a security manager exists and its
     *        { @code checkPermission} method doesn't allow access.
     *
     * @see Guard
     * @see GuardedObject
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 *<p>
 * @param permission the permission to check against.
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 *<p>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 *<p>
 * @param obj the object we are testing for equality with this object.
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 *<p>
 * The required {@code hashCode} behavior for Permission Objects is
 * the following:
 *<ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
* { @code hashCode} method
* must consistently return the same integer. This integer need not
* remain consistent from one execution of an application to another
* execution of the same application.
* <li>If two Permission objects are equal according to the
* { @code equals}
* method, then calling the { @code hashCode} method on each of the
* two Permission objects must produce the same integer result.
* </ul>
*
* @return a hash code value for this object.
*/

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a { @code java.io.FilePermission},
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 * *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the { @code getActions} method is invoked.
 *
 * @return the actions of this Permission.
 */

*/
public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 * *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName" "name" "actions"'), or
 * ('ClassName" "name") if actions list is null or empty.
 * *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/helpers/MarkerIgnoringBase.java

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//--><![CDATA[
</script>  </div>
</div>

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</div> <!-- /#container 
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<li><a href="http://wink.apache.org/" title="RESTful Web services Framework">Wink</a></li>
<li><a href="http://wookie.apache.org/" title="Widgets for Applications">Wookie</a></li>
<li><a href="http://xalan.apache.org/" title="XSLT processors in Java and C++">Xalan</a></li>
<li><a href="http://xerces.apache.org/" title="XML parsers in Java, C++ and Perl">Xerces</a></li>
<li><a href="http://xmlbeans.apache.org/" title="XML-Java binding tool">XMLBeans</a></li>
<li><a href="http://zookeeper.apache.org/" title="Centralized service for maintaining configuration information">ZooKeeper</a></li>
<li><a href="/foundation/sponsorship.html" title="Sponsor the Foundation">Sponsorship</a></li>
<li><a href="/foundation/contributing.html" title="Donate to the Foundation">Donations</a></li>
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<li><a href="/foundation/thanks.html" title="Thank you to our Sponsors">Thanks</a></li>
<li><a href="/foundation/contact.html" title="Contact Us">Contact</a></li>
</ul>
</div>
</div>

<div class="grid_3 suffix_1">
<h4>Foundation Projects</h4>
<ul>
<li><a href="http://attic.apache.org/" title="Inactive projects repository">Attic</a></li>
<li><a href="/foundation/conferences.html" title="Meetings of developers and users">Conferences</a></li>
<li><a href="http://community.apache.org/" title="Helping newcomers to the ASF">Community Development</a></li>
<li><a href="http://incubator.apache.org/" title="Shepherd for new projects">Incubator</a></li>
<li><a href="/dev/" title="ASF Infrastructure: Operations and howto documents for PMCs and contributors">Infrastructure</a></li>
<li><a href="/legal/" title="Legal Affairs">Legal Affairs</a></li>
<li><a href="/press/" title="Public Relations">Public Relations</a></li>
<li><a href="/travel/" title="Travel Assistance">Travel Assistance</a></li>
</ul>
</div>

<div class="grid_3">
<h4>Community</h4>
<ul>
<li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
</ul>
</div>

<div class="grid_3">
<h4>How It Works</h4>
<ul>
<li><a href="/foundation/how-it-works.html">Introduction</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#structure">Structure</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>
<li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>
<li><a href="/foundation/how-it-works.html#other">Other entities</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
</ul>
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package engine

import (　　
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/assert"
    is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }
Errors

```
`Template parsing error: template: :1: function "InvalidFunction" not defined
`,
}

```
`Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
}

Table format

```
NUM  OWNER           PRODUCT ID       EXPIRES           PRICING COMPONENTS
1    owner1          productid1       2020-01-01 10:00:00 +0000 UTC compstring
2    owner2          productid2       2020-01-01 10:00:00 +0000 UTC compstring
```

Raw Format

```
license: id1
name: name1
owner: owner1
components: compstring
```
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    nil},
                Name: "nodes",
                Value: 10,
            },
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
            },
        },
    }

    // Custom Format
    formatter.Context{Format: NewSubscriptionsFormat("[[.Owner]]", false)},
    "owner1",
    "owner2",
},
}
Name:      "name2",
ProductID: "productid2",
Expires:   &expiration,
PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name:  "nodes",
 Value: 20,
 },
},
ComponentsString: "compstring",
}
out := &bytes.Buffer{
 testcase.context.Output = out
er := SubscriptionsWrite(testcase.context, subscriptions)
if e != nil {
 assert.Error(t, e, testcase.expected)
} else {
 assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
 expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
 subscriptions := []licenseutils.LicenseDisplay{
 {Num: 1,
 Owner: "owner1",
 Subscription: model.Subscription{
 ID:   "id1",
 Name:   "name1",
 ProductID: "productid1",
 Expires:   &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name:  "nodes",
 Value: 10,
 },
},
ComponentsString: "compstring",
}
{Num: 2,
 Owner: "owner2",
 Subscription: model.Subscription{

```
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
  &model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
  },
},
ComponentsString: "compstring",
}
}
exepectedJSONs := []map[string]interface{}{
{
  "Owner": "owner1",
  "ComponentsString": "compstring",
  "Expires": "2020-01-01T10:00:00Z",
  "DockerID": "",
  "Eusa": nil,
  "ID": "id1",
  "Start": nil,
  "Name": "name1",
  "Num": float64(1),
  "PricingComponents": []interface{}
    map[string]interface{}
    "name": "nodes",
    "value": float64(10),
  },
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
  "Owner": "owner2",
  "ComponentsString": "compstring",
  "Expires": "2020-01-01T10:00:00Z",
  "DockerID": "",
  "Eusa": nil,
  "ID": "id2",
  "Start": nil,
  "Name": "name2",
  "Num": float64(2),
  "PricingComponents": []interface{}
}
map[string]interface{}
{name: "nodes",
 value: float64(20),
},

"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
},
}

out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{}
    if err != nil {
t.Fatal(err)
    }
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
        var s string
        if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
        }
        assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
}

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package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (
    defaultSubscriptionsTableFormat = "table
"{{.Num}}	"{{.Owner}}	"{{.ProductID}}	"{{.Expires}}	"{{.ComponentsString}}"
"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
)

    numHeader               = "NUM"
    ownerHeader             = "OWNER"
    licenseNameHeader       = "NAME"
    idHeader                = "ID"
    dockerIDHeader          = "DOCKER ID"
    productIDHeader         = "PRODUCT ID"
    productRatePlanHeader   = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader             = "START"
    expiresHeader           = "EXPIRES"
    stateHeader             = "STATE"
    eusaHeader              = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

    // NewSubscriptionsFormat returns a Format for rendering using a license Context
    func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
        switch source {
            case formatter.TableFormatKey:
            if quiet {
                return defaultSubscriptionsQuietFormat
            }
            return defaultSubscriptionsTableFormat
        }
        return defaultSubscriptionsTableFormat
    }
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
    }
// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}
    licenseCtx.Header = map[string]string{
        "Num":               numHeader,
        "Owner":             ownerHeader,
        "Name":              licenseNameHeader,
        "ID":                idHeader,
        "DockerID":          dockerIDHeader,
        "ProductID":         productIDHeader,
        "ProductRatePlan":   productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start":             startHeader,
        "Expires":           expiresHeader,
        "State":             stateHeader,
        "Eusa":              eusaHeader,
        "ComponentsString":  pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}
func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}
func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package licensing

import (  
"context"  
"crypto/hmac"  
"crypto/sha256"  
"encoding/base64"  
"encoding/json"
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)

if keyCnt != 1 {
  err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
  return nil, errors.WithStack(err).With(errors.Fields{
    "key_id": keyID,
  })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
  return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
  return nil, errors.Wrap(err, errors.Fields{
    "key_id": keyID,
    "malformed signature payload"
  })
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
  return nil, errors.Wrap(err, errors.Fields{
    "key_id": keyID,
    "license payload unmarshal failed"
  })
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
  return nil, errors.Wrap(err, errors.Fields{
    "key_id": keyID,
  })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
  for _, publicKey := range c.publicKeys {
    if key.KeyID() == publicKey.KeyID() {
      return true
    }
  }
  return false
}
// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }
    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }
}
h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.
type CheckResponse struct {
    Expiration    time.Time `json:"expiration"
    Token         string    `json:"token"
    MaxEngines    int       `json:"maxEngines"
    ScanningEnabled bool     `json:"scanningEnabled"
    Type          string    `json:"licenseType"
    Tier          string    `json:"tier"
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID         string `json:"key_id"
    PrivateKey    string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}

runc

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  shortrevents;
} pollfd_t;

typedef unsigned intnfds_t;

Open Source Used In Crosswork Data Gateway 1.1.4 4913
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#endif _BSD_WAITPID_H
#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)(*(int*)&(w))  /* convert union wait to int */
#define WIFEXITED(w)!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) & !WIFSTOPPED(w))
#define WEXITSTATUS(w)(int)WIFSIGNALED(w) ? (_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG	0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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 */

#ifndef HAVE_SETRESGID
insetresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
insetresuid(uid_t, uid_t, uid_t);
#endif

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1.610 spdylay 1.30.0 1ubuntu1

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1.617 jackson-module-jaxb-annotations 2.9.10

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