Open Source Used In Crosswork Data Gateway 1.1.3

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The product also uses the Linux operating system, Centos Full 7.3. Information on this distribution is available at http://vault.centos.org/7.3.1611/os/Source/SPackages/. The full source code for this distribution, including copyright and license information, is available on request from opensource-requests@external.cisco.com. Mention that you would like the Linux distribution source archive, and quote the following reference number for this distribution: 147049165-141679218.

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1.575 zstd-jni 1.4.0
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1.580 apache-common-codec 1.9
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1.595 commons-net 3.3b
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1.596 java-classmate 1.4.0
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1.599 slf4j-log4j 1.7.28
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1.2 slf4j-log4j 1.7.28

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1.4 json-simple 1.1.1

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1.6 ruby-power-assert 0.3.0 1
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1.7 tre 1.1.22-r3

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* /opt/ws_local/PERMITS_SQL/1014221172_1591385371.92/0/spring-test-5-1-11-release-sources-jar/org/springframework/test/context/ActiveProfiles.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.
 */

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* @since 5.0.6
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/base/Platform.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/annotations/GwtIncompatible.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources.jar/com/google/common/collect/GwtTransient.java

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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
  jar/com/google/common/graph/Graph.java
* /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/graph/PredecessorsFunction.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
  jar/com/google/common/graph/Graphs.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
  jar/com/google/common/collect/TopKSelector.java
* /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
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
  jar/com/google/common/graph/ImmutableNetwork.java

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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources.jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources.jar/com/google/common/collection/SortedMapDifference.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources.jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources.jar/com/google/common/collection/RowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources.jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources.jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources.jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources.jar/com/google/common/collection/MinMaxPriorityQueue.java

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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/MultimapBuilder.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/CollectSpliterators.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java

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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/base/StringBuilder.java
jar/com/google/common/net/package-info.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/SortedLists.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/ContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/HashBasedTable.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/Serialization.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/ImmutableMultimap.java

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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/ImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/ImmutableMapKeySet.java
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  jar/com/google/common/graph/BaseGraph.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/primitives/ImmutableIntArray.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/hash/AbstractHashFunction.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/primitives/Primitives.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/eventbus/package-info.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/base/Supplier.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/primitives/Primitives.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/ByteStreams.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/SortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/AbstractMultiset.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/ListMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/ReverseOrdering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/package-info.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/CompoundOrdering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/TreeMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/ForwardingListIterator.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/AbstractMapEntry.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/AbstractIterator.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/LinkedHashMultiset.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/BitMap.java
jar/com/google/common/collect/MapDifference.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ForwardingObject.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/Multisets.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ForwardingMultiset.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ForwardingQueue.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ArrayListMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/NullsLastOrdering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/Ordering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/EnumHashBiMap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ForwardingSet.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/HashMultiset.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/Multimaps.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/Sets.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ForwardingMap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ForwardingCollection.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/Synchronized.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ForwardingList.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/guava-28-1-jre-sources-
jar/com/google/common/collect/HashMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/ForwardingIterator.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/ExplicitOrdering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/Maps.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/ComparatorOrdering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/Interner.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/LinkedListMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/NaturalOrdering.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/Iterables.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/SetMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/AbstractListMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/EnumBiMap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/Iterators.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/jar/com/google/common/collect/SetMultimap.java
jar/com/google/common/collect/Lists.java
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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/TreeMultiset.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/Multimap.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/AsyncCallable.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/hash/MacHashFunction.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/util/concurrent/Platform.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/io/ReaderInputStream.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/ConsumeQueueIterator.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/util/concurrent/CombinedFuture.java

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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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* limitations under the License.
*/
/**
* 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>TOD()KEVIN): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/collection/ObjectArrays.java
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* the License.
*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
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 {@link ImmutableSortedMap}, not this dummy
* version.
* @throws UnsupportedOperationException always
* @deprecated Pass a key of type {@link Comparable} to use @link
* ImmutableSortedMap#of(Comparable, Object). </b>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/hash/LongAddables.java
* /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/WriteMode.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
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/reflect/TypeToInstanceMap.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
 following header:

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*/
/*
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* 
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-
jar/com/google/common/util/concurrent/Striped.java
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*/
/*
*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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jar/com/google/common/base/SmallCharMatcher.java
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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
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- /opt/ws_local/PERMITS_SQL/1013824920_1591364007.54/0/guava-28-1-jre-sources-jar/com/google/common/collection/RegularImmutableSortedMultiset.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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*
* &lt;p&gt;We can't use [@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
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* compiler to autostrip the normal server method in order to expose the special, inherited GWT
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1.13 openjdk 1.8.0.141-1.b16.el7_3

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2.0.27.Final

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jar/io/netty/internal/tcnative/CertificateVerifier.java
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const {license, repository} = require('./package.json')

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

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

1.28 xz-java 1.8
1.28.1 Available under license :
//opt/ws_local/PERMITS_SQL/1024750274_1585404755.89/0/xz-1-8-sources-jar/org/tukaani/xz/DeltaDecoder.java: * This file has been put into the public domain.

1.29 sshguard 1.7.1 1

1.30 perfmark-api 0.17.0
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  jar/io/perfmark/Link.java
* /opt/ws_local/PERMITS_SQL/1013573494_1591905118.19/0/perfmark-api-0-17-0-sources-
  jar/io/perfmark/PerfMark.java
* /opt/ws_local/PERMITS_SQL/1013573494_1591905118.19/0/perfmark-api-0-17-0-sources-
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* /opt/ws_local/PERMITS_SQL/1013573494_1591905118.19/0/perfmark-api-0-17-0-sources-
  jar/io/perfmark/Impl.java
* /opt/ws_local/PERMITS_SQL/1013573494_1591905118.19/0/perfmark-api-0-17-0-sources-
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
* /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/channel/http/multipart/CaseIgnoringComparator.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/example/file/FileServer.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/internal/logging/Log4JLoggerFactory.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/HttpPostRequestDecoder.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/codecs/serialization/ObjectDecoderInputStream.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/codecs/timeout/TimeoutException.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/example/udt/echo/rendezvous/Config.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/example/telnet/TelnetServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerBase.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/buffer/ByteBufUtil.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-1-16-final-sources-jar/io/netty/handler/codec/http/DefaultHttpRequest.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-
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* /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-
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  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/example/http2/helloworld/client/Http2Client.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.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/Http2FlowController.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/example/worldclock/WorldClockProtocol.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.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/memcache/FullMemcacheMessage.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/buffer/AbstractDerivedByteBuf.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-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/ssl/socksx/v5/Socks5ClientEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectPayload.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/WebSocketServerExtensionHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/channel/PendingWriteQueue.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/compression/LzfDecoder.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].
 *
 * [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>
 *
 * 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>
 */
For more information, please refer to the documentation of each subtype.

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

The simplest and recommended approach is to use member variables:

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

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

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

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where an unauthenticated client can get the confidential information.
// Create a new handler instance per channel.
// See [ChannelInitializer#initChannel](Channel).
public class DataServerInitializer extends ChannelInitializer<
     Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

<h4>Using AttributeKey</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 AttributeKeys 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 if (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:
* public class DataServerInitializer extends `{@link ChannelInitializer}\n{`\n* 
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
* 
*     {`@code @Override`\n*     public void initChannel({`@link Channel\n{\n*         channel.pipeline().addLast("handler", <b>SHARED</b>);\n*     }\n*     }\n*     }\n* </pre>
* 
* 
* <h4>The `{@code @Sharable}\n{ annotation</h4>
* 
* In the example above which used an `{@link AttributeKey}\n{, you might have noticed the `{@code @Sharable}\n{ annotation.\n* 
* If a `{@link ChannelHandler}\n{ is annotated with the `{@code @Sharable}\n{ 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.\n* 
* 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.\n* 
* This annotation is provided for documentation purpose, just like
* a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.\n* 
* <h3>Additional resources worth reading</h3>
* 
* Please refer to the `{@link ChannelHandler}\n{, 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/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/RedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/RedisMessagePool.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/RedisCodecUtil.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.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/redis/DefaultLastBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/RedisConstants.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/IntegerRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources.jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/redis/RedisDecoder.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/redis/DefaultBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/redis/RedisMessageType.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/example/redis/RedisClient.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/redis/RedisCodecException.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
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  jar/io/netty/handler/codec/http/websocket/WebSocket08FrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/sctp/nio/NioSctpChannelConfig.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/Http2PingFrame.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/Http2Frame.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/smtp/LastSmtpContent.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStream.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/unix/Limits.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/internal/tcnative/SessionTicketKey.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.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/internal/ConstantTimeUtils.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/example/http2/helloworld/frame/server/Http2Server.java
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* Enumeration of supported Base64 dialects.
* <p>
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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/StreamByteDistributor.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.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/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/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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* */

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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/example/ocep/Digester.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/example/ocep/OcspRequestBuilder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/example/ocep/OcspUtils.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/example/ocep/OcspClientExample.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/example/ocep/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 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>
 * <b>lengthFieldOffset</b>   = <b>0</b>
 * <b>lengthFieldLength</b>   = <b>2</b>
 * lengthAdjustment    = 0
 * initialBytesToStrip = 0 (= do not strip header)
 *
 * BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
 * +--------+----------------+      +--------+----------------+
 * | Length | Actual Content |----->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
 * +--------+----------------+      +--------+----------------+
 * </pre>
 * */
Because we can get the length of the content by calling
[@link ByteBuf#readableBytes()], you might want to strip the length
field by specifying <tt>initialBytesToStrip</tt>. In this example, we
specified <tt>2</tt>, that is same with the length of the length field, to
strip the first two bytes.

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

```
BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

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>
* | 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>
* * 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>
* * 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>
* * 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>
* 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>
* 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)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "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)

<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x000C</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

* </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

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

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

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x0010</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

* </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
* &lt;a href="http://en.wikipedia.org/wiki/Base64">Base64</a&gt; notation.
* &lt;p&gt;
* The encoding and decoding algorithm in this class has been derived from
* &lt;a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a&gt;.
*/

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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/base64/Base64.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/buffer/HeapByteBufUtil.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/buffer/UnsafeByteBufUtil.java
* /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/handler/codec/protobuf/DatagramDnsResponseDecoder.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/pool/ChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http/HttpScheme.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/http/cookie/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/cookie/CookieEncoder.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/handler/codec/http/cookie/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/resolver/AddressResolver.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsResponseDecoder.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/handler/codec/http/cookie/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/cookie/CookieEncoder.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/handler/codec/http/cookie/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/cookie/CookieEncoder.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/handler/codec/http/cookie/package-info.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/channel/unix/Domai...
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- jar/io/netty/handler/ssl/OpenSslJavaX509Certificate.java
- /opt/ws_local/PERMITS_SQL/101422194_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
- /opt/ws_local/PERMITS_SQL/101422194_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
- /opt/ws_local/PERMITS_SQL/101422194_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
- /opt/ws_local/PERMITS_SQL/101422194_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
- /opt/ws_local/PERMITS_SQL/101422194_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
- /opt/ws_local/PERMITS_SQL/101422194_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/dns/package-info.java
- /opt/ws_local/PERMITS_SQL/101422194_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java
- /opt/ws_local/PERMITS_SQL/101422194_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/resolver/dns/TraceDnsQueryLifeCycleObserverFactory.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/util/internal/LongAdderCounter.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/util/internal/ReflectionUtil.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/resolver/HostsFileEntries.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/handler/codec/websocketx/WebSocketScheme.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/internal/tcnative/SniHostNameMatcher.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/util/NettyRuntime.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/util/SuppressForbidden.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/example/uptime/UptimeServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-
  jar/io/netty/handler/ssl/Java9SslEngine.java
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  jar/io/netty/util/internal/ThreadLocalRandom.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/Utf8Validator.java
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* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/internal/tcnative/Library.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/internal/tcnative/Buffer.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/internal/tcnative/SSL.java
* /opt/ws_local/PERMITS_SQL/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/internal/tcnative/SSLContext.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/1014221949_1591376597.75/0/netty-all-4-1-16-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

1.41 apr 1.6.5

1.42 attr 2.4.48-r0

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 */
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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>
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  jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
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  jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1008568050_1591897967.58/0/netty-transport-native-epoll-4-1-39-final-sources-
  jar/io/netty/channel/epoll/AbstractEpollServerChannel.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.
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1.54 spring-cloud-commons 2.1.3

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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>

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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;
}

}

1.56 yang-parser-impl 0.8.4
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```scala
class C {
  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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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

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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/core/ClassEmitter.java
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* /opt/ws_local/PERMITS_SQL/1018922653_1591358143.99/0/cglib-2-1-3-sources-jar/net/sf/cglib/proxy/MethodProxy.java
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### 1.77 mitchellh-mapstructure 1.1.2

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### 1.78 sshpass 1.06 1
1.79 dialog 1.3-20171209 1

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Upstream source http://invisible-island.net/dialog/dialog.html

Current dialog upstream maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.82 scala-reflect 2.12.8

1.83 spring-cloud-starter-openfeign

2.1.4.RELEASE

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* Detect unordered_map in stl_hash.m4.

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

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* Fixed initialization ordering problem in logging code.

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* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* HPUX support.

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* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

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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.
* Fix bug with permanent callbacks that delete themselves when run.

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* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris.

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues.
* Added atomicops for AIX (POWER).

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1.94 chrony 3.2 4ubuntu4.2

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* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/TransportProvider.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/util/ForwardingSubchannel.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/InsightBuilder.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/ManagedChannelServiceConfig.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/util/GracefulSwitchLoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/util/ForwardingClientStreamTracer.java

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  jar/io/grpc/internal/OobChannel.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
  jar/io/grpc/util/RoundRobinLoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
  jar/io/grpc/internal/CensusTracingModule.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
  jar/io/grpc/internal/FailingClientStream.java
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  jar/io/grpc/internal/KeepAliveManager.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
  jar/io/grpc/internal/ManagedChannelImpl.java
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  jar/io/grpc/internal/LogExceptionRunnable.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
  jar/io/grpc/internal/ConnectionClientTransport.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
  jar/io/grpc/internal/InUseStateAggregator.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
  jar/io/grpc/internal/MetadataApplierImpl.java
* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-
  jar/io/grpc/internal/AbstractSubchannel.java
* /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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* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/internal/ConnectivityStateManager.java
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* /opt/ws_local/PERMITS_SQL/1013966749_1591897960.23/0/grpc-core-1-24-1-sources-jar/io/grpc/inprocess/InProcessSocketAddress.java
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define _COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#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 POLLRDYNORM 0x0040
#define POLLRDNORM POOLLRDYNORM
#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

#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)(WIFEXITED(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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*/
```

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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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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/http2/helloworld/client/Http2Client.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/collection/IntCollections.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/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/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
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty/all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/Ocsp/OcspClientHandler.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/DnsQueryLifecycleObserver.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty/all-4-1-17-final-sources20-1-jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.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
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty/all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/Ocsp/OcspClientHandler.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/DnsQueryLifecycleObserver.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty/all-4-1-17-final-sources20-1-jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.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/OptionalSslHandler.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/Java9SslUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty/all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/DnsQueryLifecycleObserver.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty/all-4-1-17-final-sources20-1-jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.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/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
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty/all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/Ocsp/OcspClientHandler.java
* /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].

Sub-types

[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
<li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>

Alternatively, the following adapter classes are provided for your convenience:

[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,
[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations,
[@link ChannelDuplexHandler] to handle both inbound and outbound events

For more information, please refer to the documentation of each subtype.

The context object

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

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

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

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

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

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

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

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

Using `AttributeKey`s
Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use `@link AttributeKey` s which is provided by `@link ChannelHandlerContext`:

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

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

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

Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends @link ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(@link Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

The `@code @Sharable` annotation
In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading:
Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* under the License.
*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See [@code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/traffic/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/UdtChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.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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* http://creativecommons.org/licenses/publicdomain
*/
/**
* 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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*/
/**
* 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.
*
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.

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

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 length value in this example message.
is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>` for compensation.

```plaintext
* 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)
* +--------+----------------+      +--------+----------------+
* | 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.

```plaintext
* lengthFieldOffset   = <b>2</b> (= the length of Header 1)
* lengthFieldLength   = <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" |
* +----------+----------+----------------+      +----------+----------+----------------+
```

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

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

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----------------------------------------------+ +-----------------------------------------------+
```
2 bytes length field at offset 1 in the middle of 4 bytes header,
strip the first header field and the length field

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
* header from the frame. If you don't want to strip the prepended header, you
could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>

BEFORE DECODE (16 bytes)               AFTER DECODE (13 bytes)

+--------+------------------+      +--------+------------------+
| HDR1   | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA   | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+--------+------------------+      +--------+------------------+

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

* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>

BEFORE DECODE (16 bytes)               AFTER DECODE (13 bytes)

+--------+------------------+      +--------+------------------+
| HDR1   | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA   | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+--------+------------------+      +--------+------------------+
@see LengthFieldPrepender

*/

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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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jar/io/netty/example/http/websocketx/client/WebSocketClientHandler.java
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- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/ipfilter/RuleBasedIpFilter.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/mqtt/MqttConnAckVariableHeader.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/ipfilter/IpFilterRule.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/socksx/v4/AbstractSocks4Message.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/ssl/SslContext.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-resolver/AddressResolverGroup.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-channel/epoll/EpollDatagramChannel.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/ssl/OpenSslApplicationProtocolNegotiator.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/compression/Bzip2BlockDecompressor.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/example/http/websocketx/client/WebSocketClient.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/ssl/OpenSslClientContext.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/xml/XmlCdata.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/stomp/package-info.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-resolver/NameResolver.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/compression/Bzip2DivSufSort.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/compression/Bzip2HuffmanStageEncoder.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/mqtt/MqttSubAckPayload.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/codec/mqtt/MqttSubAckMessage.java
- /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-handler/ssl/OpenSslContext.java
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jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/stomp/StompSubframeAggregator.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/xml/XmlAttribute.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/ssl/OpenSslSessionContext.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/channel/ChannelFactory.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/compression/Bzip2Rand.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/Socks5CommandRequestDecoder.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/ssl/OpenSslServerContext.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/compression/Bzip2BitWriter.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/mqtt/MqttSubscribePayload.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/xml/XmlSpace.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/stomp/StompHeaders.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/Http2InboundFrameLogger.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/http2/Http2InboundFrameListener.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/xml/XmlSpace.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/DecoderResultProvider.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
*/opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/stomp/StompHeaders.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/codec/stomp/StompSubframeDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/SniHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/resolver/dns/DnsQueryContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2FrameLogger.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/ThreadDeathWatcher.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/mqtt/MqttConnectReturnCode.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/xml/XmlDocumentEnd.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/xml/XmlNamespace.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/xml/XmlElementEnd.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/mqtt/MqttConnectPayload.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/mqtt/MqttConnectPayload.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/mqtt/MqttCodecUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.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/http/websocketx/WebSocket13FrameEncoder.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/WebSocket13FrameDecoder.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/WebSocket07FrameDecoder.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/WebSocket07FrameEncoder.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/WebSocket08FrameDecoder.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/spdy/DefaultSpdyWindowUpdateFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/util/ReferenceCountUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponse.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/WebSocketProtocolHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/util/concurrent/ImmediateExecutor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/handler/codec/memcache/MemcacheContent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/handler/codec/memcache/FullMemcacheMessage.java
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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/udt/UdtServerChannel.java
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jar/io/netty/channel/rxtx/RxtxChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/rxtx/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
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jar/io/netty/channel/rxtx/RxtxDeviceAddress.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/example/ocps/Digester.java
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  jar/io/netty/example/ocps/OcspClientExample.java
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  jar/io/netty/internal/tcnative/SSLContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/internal/tcnative/SSL.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/DelegatingSslContext.java
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jar/io/netty/handler/ssl/PemValue.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/kqueue/AbstractKQueueChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/unix/Limits.java
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jar/io/netty/handler/ssl/x509/TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/unix/PeerCredentials.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/ResourceLeakTracker.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/x509/AbstractX509TrustManager.java
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jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
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jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
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jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.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/smtp/DefaultSmtpContent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/BsdSocket.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.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/kqueue/KQueueNative.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/compression/CompressionUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.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/http/snoop/HttpSnoopServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/websocketx/WebSocketServerHandshaker00.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/timeout/IdleState.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/socket/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/rtsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/SslHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/QueryStringEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/DefaultFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/HttpObjectAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerOne.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/rtsp/RtspHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/http/file/HttpStaticFileServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/socket/DatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/uptime/UptimeClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/http/snoop/HttpSnoopServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codecs/rtsp/RtspRequestEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codecs/socks/SocksInitResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codecs/spdy/SpdyHttpEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/stream/ChunkedStream.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty-channel/RecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty/channel/ChannelPromiseAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty/handler/codec/compression/ZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/netty/handler/codec/serialization/CompactObjectInputStream.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/DefaultChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/example/worldclock/WorldClockClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/example/objectecho/ObjectEchoServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/http/HttpRequestEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/string/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/local/LocalEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/example/portunification/PortUnificationServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/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/socks/SocksCmdResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/logging/LoggingHandler.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/compression/ZlibCodecFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/compression/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/example/scp/ScpEchoClient.java
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* jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.java

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* jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
* jar/io/netty/handler/codec/ValueConverter.java
* /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
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
* jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
* jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
* jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
* jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.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/channel/sctp/SctpNotificationHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/example/worldclock/WorldClockProtocol.proto
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/channel/sctp/SctpMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/channel/sctp/nio/NioSctpServerChannel.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/channel/sctp/SctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/channel/sctp/SctpServerChannelConfig.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/util/internal/CleanerJava9.java

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1.126 mockito 2.23.4

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1.129 error_prone_annotations 2.3.3

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* /opt/ws_local/PERMITS_SQL/1009429786_1592506323.44/0/error-prone-annotations-2-3-3-sources-1-
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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/CheckReturnValue.java
1.130 netty-transport-native-unix-common

4.1.42.Final

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sources-jar/io/netty/channel/unix/UnixChannelOption.java
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sources-jar/io/netty/channel/unix/package-info.java

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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_buffer.h
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_buffer.c
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/Buffer.java

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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_jni.h

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1.131 jersey-hk2 2.27

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<body>
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1.146 language-pack-gnome-en

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1.148 object-cache-api 1.2.3

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1.149 bean-validation-api 2.0.1

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1.151 regexp 2.7.2

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

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

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

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

For a subclass to support metadata, typical behavior of replace() is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
</ul>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<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>Replaceable</code> in their text representation class.</p>

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */

public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }
    public final String getName() { return null; }
}
public void checkGuard(Object obj) throws SecurityException {
}

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

public abstract String getActions();

public abstract boolean implies(Permission permission);

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**1.162 project-lombok 1.18.10**

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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 Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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* A collection of File Manager and related routines

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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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* /opt/ws_local/PERMITS_SQL/1014221182_1593546679.56/0/slf4j-api-1-7-29-sources-
  jar/org/slf4j/helpers/BasicMarker.java
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  jar/org/slf4j/helpers/NOPILoggerFactory.java

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1.170 netty-codec-socks 4.1.39

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  jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
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1.173 opencensus-api 0.6.0

1.174 rubygems-integration 1.11

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1.175 netty-transport-native-unix-common

4.1.39

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sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1008568057_1591377104.21/0/netty-transport-native-unix-common-4-1-39-final-
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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/DomainSocketReadMode.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/UnixChannel.java
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sources-jar/io/netty/channel/unix/NativeInetAddress.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/DomainSocketChannel.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/Errors.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/DomainSocketChannelConfig.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/ServerDomainSocketChannel.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/PeerCredentials.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/Limits.java
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sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/ws_local/PERMITS_SQL/1008568057_1591377104.21/0/netty-transport-native-unix-common-4-1-39-final-
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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-sources-jar/io/netty/channel/unix/package-info.java

1.176 libasyncns 237 3ubuntu10.29

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  Upstream-Contact: Lennart Poettering <mznflapaf@0pointer.de>
  Source: http://0pointer.de/lennart/projects/libasyncns/

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1.177 jnr-constants 0.9.8

1.178 jackson-jaxrs-base 2.9.9

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1.179 io-grpc-grpc-core 1.9.0

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* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/InternalChannelStats.java
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* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/Instrumented.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-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/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

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* /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/ObjectPool.java
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* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/ConnectivityState.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/AbstractSubchannel.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/ManagedChannelImpl.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/CensusStatsModule.java
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* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/ConnectivityStateInfo.java
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* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/jar/io/grpc/MethodDescriptor.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/jar/io/grpc/ServerCall.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/jar/io/grpc/Channel.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/jar/io/grpc/ServerInterceptor.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/jar/io/grpc/ServerInterceptors.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/jar/io/grpc/HandlerRegistry.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/jar/io/grpc/Status.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/jar/io/grpc/ServerListener.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/jar/io/grpc/ClientInterceptor.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/jar/io/grpc/ClientStream.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/ServerServiceDefinition.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/ServerTransportListener.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/MessageDeframer.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/ServerStreamListener.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/Drainable.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/AbstractServerStream.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/ServerStream.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/Http2ClientStreamTransportState.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/SerializingExecutor.java
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* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/GrpcUtil.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/AbstractReadableBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/Stream.java
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* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/ClientInterceptors.java
* /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources-jar/io/grpc/internal/StreamListener.java

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- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/CallOptions.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/Compressor.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/internal/DelayedStream.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/internal/ServerCallImpl.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/ManagedChannelBuilder.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/internal/NoopClientStream.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/internal/Http2Ping.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/StatusRuntimeException.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/internal/ServerTransport.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/ManagedChannelProvider.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/internal/WritableBuffer.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/PartialForwardingServerCall.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/NameResolver.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/Contexts.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/ForwardingServerCall.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/Attributes.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/ServerProvider.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/internal/context-info.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/ManagedChannel.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/internal/ContextRunnable.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/CompressorRegistry.java
- /opt/ws_local/PERMITS_SQL/1014221951_1591365900.65/0/grpc-core-1-9-0-sources.jar/io/grpc/ExperimentalApi.java
1.180 vixie-cron 3.0pl1 128.1ubuntu1

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1.181 jacoco 0.8.5

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<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" />
<link rel="shortcut icon" href="resources/report.gif" type="image/gif" />
<title>JaCoCo - License</title>
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<body>

<div class="breadcrumb">
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</style>
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<body>
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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
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.

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
 * \{ @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.
 *

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 \texttt{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 \texttt{equals} method for making access control
 * decisions; use the \texttt{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.
 * <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>
 */
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 + ")";
    }
}
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();

}

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Version 2, June 1991

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 */
package org.springframework.security.acls.model;

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 {

// ~ Static fields/initializers
//
// ==================================================================================
//  ===
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.
 * @return a 32-character bit pattern
 */
String getPattern();

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1.202 log4j-over-slf4j 1.7.29

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1.203 sbsigntool 0.6-3.2ubuntu2

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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/Http2SettingsReceivedConsumer.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/concurrent/FastThreadLocalRunnable.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/internal/Cleaner.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/internal/CleanerJava9.java

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  jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/ssl/PseudoRandomFunction.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/compression/Lz4XXHash32.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/address/package-info.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/ssl/SSLPrivateKeyMethodDecryptTask.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/ssl/SSLPrivateKeyMethodSignTask.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/address/package-info.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/ssl/SSLTask.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/http2/MaxCapacityQueue.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/http/websocketx/MqttHeartBeatBrokerHandler.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerConfig.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/compression/Lz4XXHash32.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/internal/tcnative/SSLSocketCloseTask.java
  */opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.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-
  jar/io/netty/handler/address/package-info.java
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  jar/io/netty/channel/scpt/ScptChannelOption.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/RxtxChannelOption.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
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 * 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/Base64Dialect.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
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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.
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *<pre>
 * The value of the length field in this example is &lt;tt&gt;12 (0x0C)&lt;/tt&gt; 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)
*
* BEFORE DECODE (14 bytes)   AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
*
* 2 bytes length field at offset 0, strip header
*
* 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)
*
* 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
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment</b>   = <b>-2</b> (= the length of the Length field)
</pre>
* initialBytesToStrip = 0

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

* </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

* 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, 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.

* `<pre>
  * lengthFieldOffset   = 1
  * lengthFieldLength   = 2
  * `<b>lengthAdjustment</b>   = `-3` (= the length of HDR1 + LEN, negative)
  * `<b>initialBytesToStrip</b> = 3` (= the length of HDR1 + LEN)
  *
  * BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  * +-----------------------+                    +-------------------+
  * | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  * | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +-----------------------+                    +-------------------+
  * </pre`

* @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/traffic/AbstractTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
* /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/SctpNotificationHandler.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/NioSctpServerChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/NioSctpChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/example/worldclock/WorldClockProtocol.proto
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/SctpChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/SctpServerChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/SctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/channel/sctp/SctpNotificationHandler.java

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jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/xml/XmlDecoder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyConstants.java
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jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/example/http2/helloworld/server/Http2Server.java
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jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
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jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
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jar/io/netty/handler/codec/xml/XmlContent.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.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/ssl/SslContext.java
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jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
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jar/io/netty/handler/codec/stomp/StompSubframeEncoder.java
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jar/io/netty/handler/codec/xml/XmlProcessingInstruction.java
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jar/io/netty/handler/codec/compression/PerMessageDeflateEncoder.java
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jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
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jar/io/netty/handler/codec/xml/XmlEntityReference.java
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jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.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/ssl/ApplicationProtocolNegotiator.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/http/HttpServerUpgradeHandler.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/http2/helloworld/client/Http2SettingsHandler.java


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  jar/io/netty/channel/ChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
  jar/io/netty/handler/codec/CorruptedFrameException.java
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jar/io/netty/example/socksproxy/SocksServerConnectHandler.java

jar/io/netty/channel/AbstractChannelHandlerContext.java

jar/io/netty/handler/codec/MessageToMessageCodec.java

jar/io/netty/channel/ChannelFutureListener.java

jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java

jar/io/netty/handler/codec/socks/SocksRequest.java

jar/io/netty/handler/codec/http/HttpConstants.java

jar/io/netty/handler/codec/http/httpContentEncoder.java

jar/io/netty/channel/socket/ServerSocketChannelConfig.java

jar/io/netty/util/IllegalReferenceCountException.java

jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java

jar/io/netty/example/worldclock/WorldClockClient.java

jar/io/netty/channel/nio/package-info.java

jar/io/netty/handler/codec/http/DefaultHttpMessage.java

jar/io/netty/util/concurrent/EventExecutorGroup.java

jar/io/netty/channel/EventLoopException.java

jar/io/netty/example/factorial/FactorialClientInitializer.java

jar/io/netty/channel/udt/UdtChannelConfig.java

jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java

jar/io/netty/example/localecho/LocalEcho.java

jar/io/netty/example/telnet/TelnetClient.java

jar/io/netty/example/qotm/QuoteOfTheMomentClientHandler.java

jar/io/netty/handler/codec/socks/SocksCommonUtils.java

jar/io/netty/handler/codec/http/websocketx/server/WebSocketFrameHandler.java

jar/io/netty/handler/codec/http/WebSocketFrameHandler.java

jar/io/netty/example/telnet/TelnetClient.java

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  jar/io/netty/handler/flow/package-info.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/kqueue/AbstractKQueueChannel.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/dns/DnsPtrRecord.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/codec/dns/DnsPtrRecord.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
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jar/io/netty/handler/codec/http2/WeightedPairQueueByteDistributor.java
* /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/ValueConverter.java
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jar/io/netty/util/ByteProcessor.java
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jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java
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jar/io/netty/handler/codec/http2/StreamByteDistributor.java
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jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-
jar/io/netty/handler/codec/http2/Http2StreamVisitor.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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 * Set the [@code TCP_MD5SIG] option on the socket. See [@code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/example/oosp/OcspServerExample.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/example/oosp/OcspRequestBuilder.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>
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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>
* <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.
A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

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

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

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

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

```java
// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends ChannelInitializer<Channel> {

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

### Using `AttributeKey`s

* `<h4>Using `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` which is provided by `@link ChannelHandlerContext`:

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

@Sharable
public class DataServerHandler extends @link SimpleChannelInboundHandler&lt;Message&gt; {
    private final @link AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(@link ChannelHandlerContext ctx, Message message) {
        Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```

Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends @link ChannelInitializer&lt;Channel&gt; {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(@link Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

The `@Sharable` annotation

---

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In the example above which used an `AttributeKey`, you might have noticed the `Sharable` annotation.

If a `ChannelHandler` is annotated with the `Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading:

Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-util/internal/ReflectionUtil.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-buffer/ByteBufAllocatorMetricProvider.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-channel/internal/package-info.java

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* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/util/internal/EmptyPriorityQueue.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1014298136_1591897446.55/0/netty-all-4-1-43-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.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/ssl/Java9SslEngine.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/http/HttpServerExpectContinueHandler.java
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Additional CertPath testing and validation data from the CertPath testing tool developed by Core Infrastructure Initiative and the TLS/DTLS API and the BCJSSE provider.

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Michael Lee &lt;yfl@#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).

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

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Soren Hilmer &lt;hilmer@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.

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Tomas Gustavsson &lt;tomaszg@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.

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Christian Geuer-Pollmann &lt;geuerp@064;apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.

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Shankar Srinivasan &lt;ssr002@064;yahoo.com&gt; - S/Mime interoperability testing and debugging.

Stef Hoeben &lt;ilsestef@064;skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.

Klaudiusz Ciosk &lt;kciosk@064;max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.

Thomas Houtekier &lt;Thomas.Houtekier@064;tetrade.net&gt; - S/Mime testing and debugging.
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- Joel Hockey &lt;joel.hockey@#064;qsipayments.com&gt; - initial work on the openSSL PEM processing.
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- Sascha Weinreuter &lt;Sascha.Weinreuter@#064;cit.de&gt; - fixed SMIME saveChanges() bug.
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- Brett Neumeier &lt;random@#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.
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- Johannes Nicolai &lt;Johannes.nicolai@#064;novosec.com&gt; - further enhancements to OCSP response.
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<li>Jan Haywood &lt;ian@064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>
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<li>Gregor Leander &lt;gl@064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.</li>
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<li>Doug &lt;ummomm@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 implimentation 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 PGPKPair to fix nullpointer exception.</li>
<li>Perez Paz Luis Alberto &lt;laperez@064banxico.org.mx&gt; - patch to use of ByteString 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.

- Michael Hausler &lt;haeusler@#064ponton-consulting.de&gt; - extra aliases for provider.
- Sai Pullabhothla &lt;tsai@#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
- Joseph Miller &lt;joseph@#064digiswiss.net.nz&gt; - addition of ZeroBytePadding.
- Lars &lt;xyz@#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.
- Jeroen van Vianen &lt;jeroen@#064vanvianen.nl&gt; - the Signed and Encrypted mail example.
- Jun Sun &lt;JSun@#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.
- Petr Dukem &lt;pdudem@#064mail.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.
- Filipe Silva &lt;filipe.silva@#064wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.
- Alpesh Parmar &lt;alps@#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().
- Jay Gengelbach &lt;jengelbach@#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@#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.
- Matthew Mundy &lt;mmundy1@#064umbc.edu&gt; - infinite loop prevention patch to PKCSS5ParametersGenerator.
- Tom Cargill &lt;cargill@#064profcon.com&gt; - spelling patch in provider.
- Breitenstrom Christian &lt;C.Breitenstrom@#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.
- Zanotti Mirko &lt;danotti@#064cad.it&gt; - patch to ordered equality test for X509Name.
- Nicola Scendoni &lt;nscendoni@#064babelps.it&gt; - patch to add sorting to CertPath validation.
- Ville Skyytt&auml; @uml; &lt;ville.skyytt@#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@#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.
- Miles Whiteley &lt;Miles.Whiteley@#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.
- Albert Moliner &lt;amoliner@#064evintia.com&gt; - initial TSP implementation.
- 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.
- Javier Delgadillo &lt;java@#064javicleadware.org&gt; - initial Mozilla PublicKeyAndChallenge classes.
- Joni Hahkala &lt;joni.hahkala@#064cern.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.
- Rolf Schillinger &lt;rolf@#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.
- Sergey Bathin &lt;Sergey_Batin@#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.
- Franck Leroy &lt;Franck.Leroy@#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
- Atsuhiko Yamanaka &lt;ymnk@#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
Nickolay Bolshackov &lt;tyrex@reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

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

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

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

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

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

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

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

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

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

Pavel 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; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

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

Fix Bernd (KCDP 11) &lt;bernd.fix@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@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;bianorourke@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.
- Patch for trailer function in version 2 signature packets.

- RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

- Large field OID sample test data. Missing key types in JDKKeyFactory.

- Addition of CRL writing to the PEMWriter class.

- Fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

- Initial implementation of 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.

- Patch to fix EOF read on SharedFileInputStream, support for F2m compression.

- 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 topos 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.

- Patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

-Mods to GOST-3411 and MD2 to support ExtendedDigest.

- Initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

- Fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

- Initial implementation of NaccacheStern cipher.

- Fix to SignatureSubpacket critical bit setting.

- Extra toString() support for ASN.1 library. Initial patch for large OID components.


- Support for tags > 30 in ASN.1 parsing.

- First cut of internationalisation, initial PKIX validation classes.

- Main set of test vectors for Bleichenbacher's forgery.
attack.</li>
<li>Xavier Le Vouch &lt;xavier@064brittanysoftware.com&gt; - general code clean ups.</li>
<li>Erik Tews &lt;e_tews@064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon &lt;teikomusha@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 enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juiliusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.</li>
<li>Matthias &lt;g@g064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga Kaufl &lt;olga.gaethler@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&uuml;ria Mar&iacute; &lt;numaa@064hotmail.com&gt; - patch for alternate data type recognition in CMMSSignedDataParser.</li>
<li>Janis Schuller &lt;js@064tzi.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 Gwozd &lt;jakub.gwozdziu@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, JCA compliance patch for PEM parsing in CertificateFactory.</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
Roeleof Naude &lt;roelof.naude&#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</p></li>
<li>Patrick Peck &lt;peck&#064064signature.net&amp;gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaymd&#064064lemaymd.com&gt; - identified problem with EAX [BIA-93].</li>
<li>Alex Dupre &lt;ale&#064064FreeBSD.org&amp;gt; - fix to use of Signature rather than SignatureSpi in provider [BIA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [BIA-102].</li>
<li>Roelof Naude &lt;roelof.naude&#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck&#064064signature.net&amp;gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
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<li>Alex Dupre &lt;ale&#064064FreeBSD.org&amp;gt; - fix to use of Signature rather than SignatureSpi in provider [BIA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [BIA-102].</li>
<li>Tomas Krivanek &lt;tom@atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;m.emfa@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 Kilaring &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;m.smith@064cbnco.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>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kilaring &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
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<li>Michael Smith &lt;m.smith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</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;wayne@064gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.</li>
<li>Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Michael Smith &lt;m.smith@064cbnco.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>Bob McGowan &lt;boab.mcgoo@064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis &lt;i.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini &lt;nessche@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf &lt;alfilmalf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikocinski &lt;J.Sikocinski@gdzie.pl&gt; addition of Features subpacket support to OpenPGP APL.</li>
<li>Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten &lt;liane.velten@064hjp-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>Mickael Laikin &lt;mickael.laikin@064keynectis.com&gt; initial cut of EAC classes.</li>
<li>Tim Baktu &lt;tbaktu@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;igan.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
<li>Petar Petrov &lt;p.petrov@bers-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.

Daniel Eleriseth &lt;D.Eleriseth@#064WPECGLIYv8Rl6Y7VzI2Lv2EUVV99v3yNV3WROG8.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@#064yahoo.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.

Samuel Lidkeacuten Borell &lt;samuel@#064primekey.se&gt;; Patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@#064certimix.com&gt;; Pointing out isInfinity issue in ECDSASigner signature verification.

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

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

Andrey Zhozhin &lt;zhozhin@#064xm.ru&gt;; Patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;at5555d@#064gmail.com&gt;; Initial cut of DVCS classes.

Ash Hughes &lt;ashley.hughes@#064blueyonder.co.uk&gt;; Patches for supporting PGPPrivateKeyRing/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.athom@#064gmail.com&gt;; Initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;mati.aarnio@#064methics.fi&gt;; Tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, 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 Herbets &lt;Mathias.Herbets#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 Utkin &lt;cindrhc#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Mathias Herberts &lt;Mathias.Herberts#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;rt&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 ISEEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter#iaik.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 digests.

Robert Bushman &lt;bouncycastle#064traxel.com&gt; Clean up of DirectKeySignature example.

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

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

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

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

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

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

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

Jens Kapitza &lt;j.kapitza#schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;johan#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#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.

Derek Atkins &lt;derek#064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.
Peter Jr Halicky &lt;peto@halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator. 

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

Thomas Belot&lt;thomas.belot+BC@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.

Bj&ouml;rn Kautler&lt;https://github.com/BjornKautler&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@064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Tobias Wagner &lt;tobias.wagner@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+bouncycastle@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 X.509.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@opentrust.com&gt; Fix for IES data length check on decryption.

Niko &lt;nfink95@gmail.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@cryptovision.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 PGPOriginFactory to handle stream packets at start of iterated data.

Andr&egrave;eacute; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECDominatedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaranowski&lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGPPublic 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;jaegele@064grierforensics.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/&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.

Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPrivateKey.

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

Artem Storozhuk &lt;storois72&#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&#064#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&#064stud.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;storois72&#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser&#064de.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.

ekszz2 &lt;https://github.com/ekszzz2&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&#064#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;&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/ecki&gt; Fixed 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/vanitasviteae&gt;; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyData DecryptorFactory. Additional tests on PGPK 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&amp;#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&amp;#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.
- Tony Washer &lt;tony.washer@yaho.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 macs.
- Vincent Bouckaert &lt;https://github.com/veebec&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.
- Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.
- 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;#41;eacute;er, TrueSec &lt;Henrik.Palmer&amp;#064;truesec.se&gt; Additional improvements to constant time comparisons.
- Ren&amp;#41;eacute;e Korthaus&lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
- THausherr&amp;lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.
- Gaylor Bosson&amp;lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.
- gaellalire&amp;lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SEXP.
- im-scooter&amp;lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.
- Nick hitchan&amp;lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.
- dubsche&amp;lt;https://github.com/dubsche&amp;gt; Argon2 optimisations.
- Daniel Heldt&amp;lt;https://github.com/dheldt&amp;gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
- Ugochukwu Mmaduekwe&amp;lt;https://github.com/Xor-el&amp;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
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* /opt/ws_local/PERMITS_SQL/1013730202_1591385263.05/0/spring-kafka-2-2-9-release-sources-jar/org/springframework/kafka/listener/BatchErrorHandler.java
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* /opt/ws_local/PERMITS_SQL/1013730202_1591385263.05/0/spring-kafka-2-2-9-release-sources-jar/org/springframework/kafka/support/ProducerListener.java
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* 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
* @see ServletWebServerFactory
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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/context/properties/source/DefaultPropertyMapper.java
* /opt/ws_local/PERMITS_SQL/1009549893_1591897252.29/0/spring-boot-2-1-9-release-sources-
jar/org/springframework/boot/web/reactive/context/ConfigurableReactiveWebApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1009549893_1591897252.29/0/spring-boot-2-1-9-release-sources-
jar/org/springframework/boot/web/embedded/jetty/JettyEmbeddedErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1009549893_1591897252.29/0/spring-boot-2-1-9-release-sources-
jar/org/springframework/boot/jdbc/DatabaseDriver.java
* /opt/ws_local/PERMITS_SQL/1009549893_1591897252.29/0/spring-boot-2-1-9-release-sources-
jar/org/springframework/boot/web/embedded/jetty/ConfigurableJettyWebServerFactory.java
* /opt/ws_local/PERMITS_SQL/1009549893_1591897252.29/0/spring-boot-2-1-9-release-sources-
jar/org/springframework/boot/Banner.java
* /opt/ws_local/PERMITS_SQL/1009549893_1591897252.29/0/spring-boot-2-1-9-release-sources-
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* /opt/ws_local/PERMITS_SQL/1014221970_1591898057.89/0/grpc-netty-1-25-0-sources.jar/io/grpc/netty/ProtocolNegotiators.java
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jar/io/grpc/netty/NettyClientTransport.java
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jar/io/grpc/netty/NettyClientHandler.java
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jar/io/grpc/netty/NettyServer.java
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jar/io/grpc/netty/NettyServerHandler.java
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tree grammar BlockSetTransformer;
options {
    language = Java;
tokenVocab = ANTLRParser;
ASTLabelType = GrammarAST;
output = AST;
filter = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;

@members {
    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 { $tree = (GrammarAST)adaptor.dupNode($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)$alt).altLabel==null}? setElement[inLexer]) ( ^<ALT
    elementOptions? setElement[inLexer] )+>
-> ^<BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)>)
[![inContext("RULE")]? // if not rule block and > 1 alt
-> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]

@after {
    GrammarTransformPipeline.setGrammarPtr(g, $tree);
}

:{^<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/antlr/v4/tool/ErrorHandler.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/semantics/AttributeChecks.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/chunk/ActionText.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/decl/Decl.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/SerializedATN.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/LabeledOp.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/OutputFile.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/tool/LabelElementPair.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/RuleFunction.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/VisitorFile.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/tool/ast/GrammarASTErrorNode.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/gui/TreeViewer.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
*/opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
jar/antlr/v4/codegen/model/BaseVisitorFile.java
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/misc/OrderedHashMap.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/org/antlr/v4/semantics/SymbolChecks.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/MatchToken.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/decl/TokenListDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/tool/ErrorManager.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/automata/ATNOptimizer.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/tool/fast/SetAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/semantics/ActionSniffer.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/CodeGenPipeline.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/misc/Graph.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/BlankOutputModelFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/tool/GrammarSemanticsMessage.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/tool/fast/StarBlockAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/MatchSet.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/target/JavaTarget.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/RuleActionCode.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/chunk/LocalRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/semantics/BlankActionSplitterListener.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/tool/Grammar.java
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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/tool/GrammarInterpreterRuleContext.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/tool/ANTLRToolListener.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/target/CppTarget.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/chunk/LabelRef.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/decl/TokenTypeDecl.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/CodeGenerator.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/ParserFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/gui/TreeLayoutAdaptor.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/semantics/RuleCollector.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/ast/NotAST.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/ast/Alternative.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/Wildcard.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/gui/SystemFontMetrics.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/ListenerFile.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/model/LL1AltBlock.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/codegen/ParserFactory.java
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-jar/antlr/v4/tools/DefaultToolListener.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;
}
ruleModifier?

///(ARG_ACTION)? shouldn't allow args, right?
(^{RETURNS a=ARG_ACTION {setReturnValue($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;}

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;}

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(prefix) =>
  prefix
  {prefixAlt((AltAST)$start, currentOuterAltNumber);}

(suffix) =>
  suffix
  {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}

nonLeftRec
  {otherAlt((AltAST)$start, currentOuterAltNumber);}

binary
  ^( ALT elementOptions? recurse element* recurse epsilonElement* )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}

prefix
  ^(ALT elementOptions? element+ recurse epsilonElement* )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}

suffix
  ^( ALT elementOptions? recurse element+ )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}

nonLeftRec
  ^(ALT elementOptions? element+)

recurse
  ^(ASSIGN ID recurseNoLabel)
  ^(PLUS_ASSIGN ID recurseNoLabel)
  | recurseNoLabel

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
  ^(ASSIGN ID s=token {t = $s.t;})
  ^(PLUS_ASSIGN ID s=token {t = $s.t;})
  | b=STRING_LITERAL {t = $b;}
  |(b=STRING_LITERAL elementOptions){$t = $b;}
  |(c=TOKEN_REF elementOptions){$t = $c;}
  | c=TOKEN_REF {t = $c;}

| elementOptions
  ^(ELEMENT_OPTIONS elementOption*)
elementOption
  :ID
  | ^(ASSIGN ID ID)
  | ^(ASSIGN ID STRING_LITERAL)
  | ^(ASSIGN ID ACTION)
  | ^(ASSIGN ID INT)
  ;

element
  :atom
  | ^(NOT element)
  | ^(RANGE atom atom)
  | ^(ASSIGN ID element)
  | ^(PLUS_ASSIGN ID element)
  | ^(SET setElement+)
  | RULE_REF
  | ebnf
  | epsilonElement
  ;

epsilonElement
  :ACTION
  | SEMPREDED
  | 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
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// File : A3Lexer.g
// Author : Jim Idle (jimi@temporal-wave.com)
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// Version : First implemented as part of ANTLR 3.2 this is the self
// hosting ANTLR 3 Lexer.

/**
 * 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 grammars A3Parser.g and A3Walker.g exhibit the following
 * traits, which are recommended for all production quality grammars:
 */

/**
 ** 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
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.

// 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; }

tokens { SEMPRulePred; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

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package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;

public static final int COMMENTS_CHANNEL = 2;

public CommonTokenStream tokens; // track stream we push to; need for context info
public boolean isLexerRule = false;

/** 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 alo 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
// */
// '/*' (  
| { input.LA(2) != '/' }?=> '/*' { $type = DOC_COMMENT; }  
| { true }?=> // Required to cover all alts with predicates
)

// 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;
// Set the token text to our gathered string minus outer [ ]
String t = $text;
t = t.substring(1,t.length()-1);
setText(t);
}
;

fragment
LEXER_CHAR_SET
: '['
('\\ ~('r'|'n')
|(~('r'|'n')['w'|'w'])
)*
']'
;

// -------------
// 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
: '['
  
  ARG_ACTION


| "\""| => ACTION_STRING_LITERAL
| "\""| => ACTION_CHAR_LITERAL

| ~([[]]) |
| ~([[]]) |

// -------
// 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 : '~'                ;
RBRACE : '}'            ;

/** 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'..'u02FF'
  | 'u0370'..'u037D'
  | 'u037F'..'u1FFF'
  | 'u200C'..'u200D'
  | 'u2070'..'u218F'
  | 'u2C00'..'u2FEF'
  | 'u3001'..'uD7FF'
  | 'uF900'..'uFDCF'
  | 'uFDF0'..'uFEFE'
  | 'uFFF0'..'uFFFFF'
  ; // 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
// 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
   : \W
;

// -------
// 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 | ~('[^\]'\n) )* ( '\"'
| // 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'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
// fragment
ESC_SEQ
\W
\b|\t\n|\f|\r|\\\\n
|// 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|\\\"|\\\\\'

{|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
// | \r
// | \n
// 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 gramamr 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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* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
  jar/org/antlr/v4/tool/templates/depend.stg
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
  jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-
  jar/org/antlr/v4/tool/templates/dot/graphs.stg

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 */

tree grammar ATNBuilder;
options {
    language = Java;
    tokenVocab = ANTLRParser;
    ASTLabelType = GrammarAST;
    //filter = true;
}
// Include the copyright in this source and also the generated source
@header {
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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($a.p);})+}
   {$p = 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} {$p = factory.epsilon($EPSILON);
| ^ALT elementOptions? (e=element {els.add($e.p);})+} {$p = 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);\})+
   {$p = factory.alt(cmds);}
;

lexerCommand returns [ATNFactory.Handle cmd]
::^LEXER_ACTION_CALL ID lexerCommandExpr)
   {cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
   {cmd = factory.lexerCommand($ID);}
;

lexerCommandExpr
::ID
| INT
;

element returns [ATNFactory.Handle p]
::labeledElement {sp = $labeledElement.p;}
| atom {sp = $atom.p;}
subrule \( \{ p = \text{subrule.p}; \} \)
| ACTION \( \{ p = \text{factory.action((ActionAST)\$ACTION);} \} \)
| SEMPRED \( \{ p = \text{factory.sempred((PredAST)\$SEMPRED);} \} \)
| ^{(\text{ACTION .})} \{ p = \text{factory.action((ActionAST)\$ACTION);} \}
| ^{(\text{SEMPRED .})} \{ p = \text{factory.sempred((PredAST)\$SEMPRED);} \}
| ^{(\text{NOT b=blockSet[true])}} \{ p = b.p; \}
| \text{LEXER_CHAR_SET} \{ p = \text{factory.charsetLiteral($start);}} \}

;  

astOperand returns \[ \text{ATNFactory.Handle} p \]
| $p = $atom.p; \}
| ^{(\text{NOT blockSet[true])}} \{ p = $blockSet.p; \}

;  

labeledElement returns \[ \text{ATNFactory.Handle} p \]
| ^{(\text{ASSIGN ID element})} \{ p = \text{factory.label($element.p);}} \}
| ^{(\text{PLUS_ASSIGN ID element})} \{ p = \text{factory.listLabel($element.p);}} \}

;  

subrule returns \[ \text{ATNFactory.Handle} p \]
| ^{(\text{OPTIONAL block[$start])}} \{ p = $block.p; \}
| ^{(\text{CLOSURE block[$start])}} \{ p = $block.p; \}
| ^{(\text{POSITIVE_CLOSURE block[$start])}} \{ p = $block.p; \}
| \text{block[$null]} \{ p = $block.p; \}

;  

blockSet[boolean invert] returns \[ \text{ATNFactory.Handle} p \]
@init \{ \text{List<GrammarAST> alts = new ArrayList<GrammarAST>();}} \}
| ^{(\text{SET (setElement {alts.add($setElement.start);})})} \{ p = \text{factory.set($start, alts, $invert);} \}

;  

/** Don't combine with atom otherwise it will build spurious ATN nodes */

setElement
| ^{(\text{STRING_LITERAL .})}
| ^{(\text{TOKEN_REF .})}
| \text{STRING_LITERAL}
| \text{TOKEN_REF}
| ^{(\text{RANGE a=STRING_LITERAL b=STRING_LITERAL})}
| \text{LEXER_CHAR_SET}

;  

atom returns \[ \text{ATNFactory.Handle} p \]
| $range \{ p = $range.p; \}
| ^{(\text{DOT ID terminal})} \{ p = $terminal.p; \}
| ^{(\text{DOT ID ruleref})} \{ p = $ruleref.p; \}
| ^{(\text{WILDCARD .})} \{ p = \text{factory wildcard($start);}} \}
| \text{WILDCARD} \{ p = \text{factory wildcard($start);}} \}
| \text{blockSet[false]} \{ p = $blockSet.p; \}
terminal { $p = terminal.p; }
| ruleref { $p = ruleref.p; }
|

ruleref returns [ATNFactory.Handle p]
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) { $p = factory.ruleRef($RULE_REF); }
| ^(RULE_REF ARG_ACTION?) { $p = factory.ruleRef($RULE_REF); }
| RULE_REF { $p = factory.ruleRef($RULE_REF); }
|

range returns [ATNFactory.Handle p]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) { $p = factory.range($a,$b); }
|

terminal returns [ATNFactory.Handle p]
: ^(STRING_LITERAL .) { $p = factory.stringLiteral((TerminalAST)$start); }
| STRING_LITERAL { $p = factory.stringLiteral((TerminalAST)$start); }
| ^(TOKEN_REF ARG_ACTION .) { $p = factory.tokenRef((TerminalAST)$start); }
| ^(TOKEN_REF .) { $p = factory.tokenRef((TerminalAST)$start); }
| TOKEN_REF { $p = factory.tokenRef((TerminalAST)$start); }
|

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
|

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
|

Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1014221960_1591897522.14/0/antlr4-4-7-1-sources-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;
}

// Include the copyright in this source and also the generated source
@header {
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/*
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members {
    public String grammarName;
    public GrammarAST currentRuleAST;
    public String currentNodeName = LexerGrammar.DEFAULT_MODE_NAME;
    public String currentRuleName;
    public GrammarAST currentOuterAltRoot;
    public int currentOuterAltNumber = 1; // 1..n
    public int rewriteEBNFLevel = 0;

    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+
                            " 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 finish LexerRule(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);
}
tokensSpec
  @init {
  enterTokensSpec($start);
  }
  @after {
  exitTokensSpec($start);
  }
  : ^(TOKENS_SPEC tokenSpec+)
  ;

channelSpec
  @init {
  enterChannelSpec($start);
  }
  @after {
  exitChannelSpec($start);
  }
  : ^(CHANNELS channelSpec+)
  ;

action
  @init {
  enterAction($start);
  }
@after {
exitAction($start);
}
:^\(AT \text{ sc=ID? name=ID ACTION}\) \{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;\}
\(^\(\text{RULEMODIFIERS m=FRAGMENT \{mods.add($m);\}}\))?\)
\{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)SACTION); ]
;

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
| PROTECTED
| FRAGMENT
;

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);
}

labeledLexerElement
| lexerAtom
| lexerSubrule
|   ACTION {actionInAlt((ActionAST)$ACTION);}
|   SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
|   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
|   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;

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)
    | SEMPRE
    | ^(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, SID, $lexerCommandExpr.start);}
|ID
    {lexerCommand(currentOuterAltNumber, $ID);}
    ;

lexerCommandExpr
@init {
    enterLexerCommandExpr($start);
}
```java
@after {
exitLexerCommandExpr($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($start, SID, Selement.start);}
;
```
subrule
    @init {
        enterSubrule($start);
    }
    @after {
        exitSubrule($start);
    }
    ^(blockSuffix 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($WILDCARD);}
 |{wildcardRef($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);}
|{stringRef((TerminalAST)$STRING_LITERAL);}
|{tokenRef((TerminalAST)$TOKEN_REF);}
|^{RANGE a=STRING_LITERAL b=STRING_LITERAL}
 |
 |
 | 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
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* Etc.
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, Slabel));
  }
  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);
}:
  $altCodeBlock=$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);
}
@after {
  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 = $atom.omos;]
[substrule][[$omos = $substrule.omos;]
|  ACTION [$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\[SID,.false\]\)\{|$omos = $atom.omos;\}
|^\(ASSIGN ID block\[SID,.null\]\)\{|$omos = $block.omos;\}
|^\(PLUS_ASSIGN ID block\[SID,.null\]\)\{|$omos = $block.omos;\}
;

subrule returns [List<? extends SrcOp> omos]
:^\(OPTIONAL b=block\[null,$OPTIONAL\]\)
{ $omos = $block.omos; }
|^\(op=CLOSURE b=block\[null,$null\]\)
|^\(op=POSITIVE_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(alts);
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[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 .) { $omos = controller.stringRef($STRING_LITERAL, $label); }
  |(TOKEN_REF ARG_ACTION .) { $omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION); }
  |(TOKEN_REF .) { $omos = controller.tokenRef($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)* \r? \n' {delegate.text($text);}
    ;

SET_NONLOCAL_ATTR
    :$ x=ID '::. y=ID WS? '=' expr=ATTR_VALUE_EXPR '\n'
    {
        delegate.setNonLocalAttr($text, $x, $y, $expr);
    }
    ;

NONLOCAL_ATTR
    :$ x=ID '::. y=ID {delegate.nonLocalAttr($text, $x, $y);}
    ;

QUALIFIED_ATTR
    :$ x=ID '.' y=ID {input.LA(1)!='(')? {delegate.qualifiedAttr($text, $x, $y);}
    ;

SET_ATTR
    :$ x=ID WS? '=' expr=ATTR_VALUE_EXPR '\n'
    {
        delegate.setAttr($text, $x, $expr);
    }
    ;

ATTR
    :$ x=ID {delegate.attr($text, $x);}
    ;

// Anything else is just random text

TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
:(c=(\n|\r) '$') {buf.append((char)c);}
[\n$] {buf.append('$');}
\W 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:(\ '\t'|\n'|\r')+ 

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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/InternalLogger.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/internal/logging/JdkLogger.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/worldclock/WorldClockProtocol.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/ReferenceCounted.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.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/memcache/DefaultLastMemcacheContent.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/memcache/DefaultLastMemcacheContent.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/memcache/DefaultLastMemcacheContent.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/internal/tcnative/SSLContext.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/internal/tcnative/Library.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/internal/tcnative/Buffer.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/sctp/package-info.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/traffic/package-info.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/channel/udt/UdtChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/codec/sctp/ScpInboundByteStreamHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/codec/sctp/ScpMessageToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/codec/sctp/ScpMessageCompletionHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/channel/udt/nio/NioUdtProvider.java
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  jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
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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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* /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/ErrorsSaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/resolver/dns/DnsCache.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/kqueue/AcceptFilter.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/smtp/SmtpContent.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.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/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
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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

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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.
* The context object

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

* State management

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

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

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

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

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

    // Create a new handler instance per channel.
    // See `ChannelInitializer#initChannel(Channel)`.  

    public class DataServerInitializer extends ChannelInitializer<Channel> {

```
* { @code @Override}
* public void initChannel({@link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>new DataServerHandler()\</b>);
* }
* ...
* </pre>
* ...
* <h4>Using {@link AttributeKey}s</h4>
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey} which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {  
*     // your methods here
* }
* ...
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}     
*    private final { @link AttributeKey}    
*     private final { @link AttributeKey} auth =  
*     private final DataServerHandler <b>SHARED</b> = new DataServerHandler();
* </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}     
*     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>
*<p>
* In the example above which used an {link AttributeKey},
* you might have noticed the {code @Sharable} annotation.
*<p>
* If a {link ChannelHandler} is annotated with the {code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {link ChannelPipeline}s multiple times without
* a race condition.
*<p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
*<p>
* This annotation is provided for documentation purpose, just like
*<p>
* <h3>Additional resources worth reading</h3>
*<p>
* Please refer to the {link ChannelHandler}, and
* {link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

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/*
**
* 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/codecs/stomp/StompSubframeAggregator.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codecs/xml/XmlElementStart.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codecs/xml/XmlComment.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codecs/mqtt/MqttConnAckVariableHeader.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/spdy/server/SpdyServer.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/handler/codecs/compression/Lz4FrameDecoder.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/ApplicationProtocolConfig.java
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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
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jar/io/netty/handler/codec/http/websocketx/Utf8Validator.java

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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClient.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
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jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.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/rsocket/RSocketLocalAddressAllocator.java
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  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/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.
*
* 2 bytes length field at offset 0, do not strip header

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

* 2 bytes length field at offset 0, strip header

* Because we can get the length of the content by calling
* `ByteBuf#readableBytes()`, you might want to strip the length
* field by specifying `initialBytesToStrip`. In this example, we
* specified 2, that is same with the length of the length field, to
* strip the first two bytes.
* `<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" |
* +--------+----------------+      +--------+----------------+

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

* 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 \(<tt>2</tt><br>, we specify \(<tt>-2</tt><br>* as \(<tt>lengthAdjustment</tt><br> for compensation.

\[
\begin{align*}
\text{lengthFieldOffset} & = 0 \\
\text{lengthFieldLength} & = 2 \\
\text{lengthAdjustment} & = -2 \text{ (= the length of the Length field)} \\
\text{initialBytesToStrip} & = 0
\end{align*}
\]

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

\[
\begin{align*}
| \text{Length} | \text{Actual Content} | & | \text{Length} | \text{Actual Content} | \\
0x000E & | \text{HELLO, WORLD} | & 0x000E & | \text{HELLO, WORLD} |
\end{align*}
\]

* AFTER DECODE (14 bytes)

\[
\begin{align*}
| \text{Length} | \text{Actual Content} | & | \text{Length} | \text{Actual Content} | \\
0x000E & | \text{HELLO, WORLD} | & 0x000E & | \text{HELLO, WORLD} |
\end{align*}
\]

* The following message is a simple variation of the first example. An extra header value is prepended to the message. \(<tt>lengthAdjustment</tt><br> is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

\[
\begin{align*}
\text{lengthFieldOffset} & = 2 \text{ (= the length of Header 1)} \\
\text{lengthFieldLength} & = 3 \\
\text{lengthAdjustment} & = 0 \\
\text{initialBytesToStrip} & = 0
\end{align*}
\]

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)

\[
\begin{align*}
| \text{Header 1} | \text{Length} | \text{Actual Content} | & | \text{Header 1} | \text{Length} | \text{Actual Content} | \\
0xCAFE & 0x00000C & \text{HELLO, WORLD} & 0xCAFE & 0x00000C & \text{HELLO, WORLD}
\end{align*}
\]

* AFTER DECODE (17 bytes)

\[
\begin{align*}
| \text{Header 1} | \text{Length} | \text{Actual Content} | & | \text{Header 1} | \text{Length} | \text{Actual Content} | \\
0xCAFE & 0x00000C & \text{HELLO, WORLD} & 0xCAFE & 0x00000C & \text{HELLO, WORLD}
\end{align*}
\]

* 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><br> so that the decoder counts the extra header into the frame length calculation.

\[
\begin{align*}
\text{lengthFieldOffset} & = 0 \\
\text{lengthFieldLength} & = 3 \\
\text{lengthAdjustment} & = 2 \text{ (= the length of Header 1)} \\
\text{initialBytesToStrip} & = 0
\end{align*}
\]

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)

\[
\begin{align*}
| \text{Length} | \text{Actual Content} | & | \text{Length} | \text{Actual Content} | \\
0x000E & \text{HELLO, WORLD} & 0x000E & \text{HELLO, WORLD}
\end{align*}
\]
2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field

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

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

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

ARIABLE FIELD 0x00000C | 0x00000C | "HELLO, WORLD" |
+----------------+----------------+----------------+      +----------------+----------------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+----------------+----------------+----------------+

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

lengthFieldOffset = 1
lengthFieldLength = 2
<br>lengthAdjustment = <br>-3 (negative)
initialBytesToStrip = 3

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------------------+ +-----------------------------------+
* @see LengthFieldPrepender
*/

Found in path(s):
* /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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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-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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* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/util/internal/ResourcesUtil.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/util/ByteProcessorUtils.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java

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jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/sctp/oio/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/DefaultHttpObject.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/example/worldclock/WorldClockClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-channel/socket/DefaultServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-channel/oio/AbstractOioChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-util/DefaultAttributeMap.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-handler/codec/http/multipart/AbstractDiskHttpData.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-handler/codec/http/HttpObjectAggregator.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-handler/codec/http/DefaultHttpContent.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-channel/AdaptiveRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-util/internal/logging/Log4JLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-handler/codec/marshalling/MarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-channel/DefaultEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-handler/codec/serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-handler/codec/CodecException.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-buffer/PooledByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-handler/codec/ReplayingDecoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-channel/udt/UdtMessage.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-channel/EventLoop.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-handler/codec/spdy/SpdyHttpEncoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-example/proxy/HexDumpProxy.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-handler/stream/package-info.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-channel/ChannelOutboundHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-example/objectecho/ObjectEchoClient.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-channel/nio/NioEventLoop.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty/example/socksproxy/SocksServerHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-channel/socket/DefaultServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-channel/oio/AbstractOioChannel.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-util/DefaultAttributeMap.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-channel/AdaptiveRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-util/internal/logging/Log4JLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-handler/codec/marshalling/MarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-channel/DefaultEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-handler/codec/serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-handler/codec/CodecException.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-buffer/PooledByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-handler/codec/ReplayingDecoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-channel/udt/UdtMessage.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-channel/EventLoop.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-example/proxy/HexDumpProxy.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-handler/stream/package-info.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-channel/ChannelOutboundHandler.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-example/objectecho/ObjectEchoClient.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/jar/netty-all-4-1-42-final-sources/jar/io/netty-channel/nio/NioEventLoop.java
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jar/io/netty/example/http/websocketx/server/WebSocketServer.java

* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java


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

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

* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/util/Attribute.java


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


* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/factorial/FactorialClient.java

* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java


* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/factorial/FactorialClient.java

* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java


* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/http/file/HttpStaticFileServerHandler.java

* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/Channel.java

* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java


* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/factorial/FactorialClient.java

* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java


* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/factorial/FactorialClient.java

* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java


* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/factorial/FactorialClient.java
jar/io/netty/util/internal/logging/Slf4JLogger.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/channel/socket/DatagramPacket.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/socks/SocksCommonUtils.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http/HttpRequest.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/example/sctp/SctpEchoClient.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-
jar/io/netty/channel/oio/OioEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/handler/codec/string/package-info.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-
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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-
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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-
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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-
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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-
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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/example/package-info.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
jar/io/netty/example/http/upload/HttpUploadClientInitializer.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/ocsp/OcspServerExample.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/ocsp/OcspRequestBuilder.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/example/ocsp/OcspUtils.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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  jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java
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  jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java
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  jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java
* /opt/ws_local/PERMITS_SQL/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-
  jar/io/netty/handler/codec/http2/Http2DataWriter.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/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
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  jar/io/netty/util/collection/ShortObjectHashMap.java
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  jar/io/netty/handler/codec/DefaultHeaders.java
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jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
* /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-
jar/io/netty/handler/codec/http2/Http2FrameAdapter.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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*/
/**
* 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/1012082051_1591376642.53/0/netty-all-4-1-42-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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  jar/io/grpc/protobuf/lite/ProtoLiteUtils.java
* /opt/ws_local/PERMITS_SQL/1013966854_1591363948.01/0/grpc-protobuf-lite-1-24-1-sources-
  jar/io/grpc/protobuf/lite/ProtoInputStream.java

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1.236 jffi-java-foreign-function-interface

1.2.15

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27287883

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1.242 ruby-net-telnet 0.1.1-2

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1.243 netty-buffer 4.1.39

1.244 jackson-annotations jackson-annotations 2.9.10

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1.247 json-java 20190722

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1.248 spdylay 1.39.2-r2
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1.249 commons-digester 1.8.1

1.250 apache-log4j 1.2.15

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 */

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

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 */
/**
 * Constructs a new [ @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 first instructions corresponding to the continuous ranges
*     that make the scope of this local variable (inclusive).
* @param end
*     the last instructions corresponding to the continuous ranges
*     that make the scope of this local variable (exclusive). This
*     array must have the same size as the 'start' array.
* @param index
*     the local variable's index in each range. This array must have
*     the same size as the 'start' array.
* @param desc
*     the class descriptor of the annotation class.
*/

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/**
* Constructs a new [@link Textifier]. <i>Subclasses must not use this
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* version.
* 
* @throws IllegalStateException
* 
* If a subclass calls this constructor.
*/

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

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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/TypePath.java
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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]])
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see [ @link Opcodes]). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [ @link Type]).
* @param signature
  * the method's signature. May be <tt>null</tt>.
* @param exceptions
  * the internal names of the method's exception classes (see
*  { @link Type#getInternalName() getInternalName}). May be
*  <tt>null</tt>.
* @throws IllegalStateException
  * If a subclass calls this constructor.
*/

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

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 */
/**
 * Creates a new { @link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #GeneratorAdapter(int, MethodVisitor, int, String, String})
 */
* version.
*
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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

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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
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/tree/package.html
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1.255 json-smart-v1 2.3

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1.256 bcpkix-jdk15on 1.60

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1.258 javax-inject1-as-osgi-bundle 2.6.1

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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
  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
}

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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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 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, ""
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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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
{
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
`,
},
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
`1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01
`,
},
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
`,
},
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

`,
`,
{
formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
`license: id1
license: id2
`
`,
}
// Custom Format
{
formatter.Context{Format: NewSubscriptionsFormat("[{{.Owner}}]", false)},
`owner1
owner2
`
},
}

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:  20,
    },
  },
  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",
    },
Owner: "owner2",
Subscription: model.Subscription{
  ID:        "id2",
  Name:      "name2",
  ProductID: "productid2",
  Expires:   &expiration,
  PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
      Name:  "nodes",
      Value: 20,
    },
    &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",
    "$ref":        "subscription2"  
}
}

"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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* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources-jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseReactiveDataAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources-jar/org/springframework/boot/autoconfigure/dao/PersistenceExceptionTranslationAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources-jar/org/springframework/boot/autoconfigure/orm/jpa/HibernateSettings.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources-jar/org/springframework/boot/autoconfigure/context/PropertyPlaceholderAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources-jar/org/springframework/boot/autoconfigure/reactor/core/ReactorCoreProperties.java

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jar/org/springframework/boot/autoconfigure/json/GsonBuilderCustomizer.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/jersey/ResourceConfigCustomizer.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/AutoConfigurationMetadataLoader.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/EnableAutoConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/web/servlet/package-info.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/web/reactive/package-info.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/data/mongo/MongoClientDependsOnBeanFactoryPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/data/web/package-info.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/quartz/package-info.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/couchbase/package-info.java
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* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/web/servlet/WebMvcAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/template/package-info.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/cache/CacheConfigurations.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/cache/CacheManagerCustomizers.java

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* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/orm/jpa/DatabaseLookup.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/webservices/WebServicesAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/security/servlet/AntPathRequestMatcherProvider.java
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* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/mustache/MustacheResourceTemplateLoader.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/mongo/embedded/package-info.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/mbg/package-info.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/mongo/EmbeddedMongoAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/template/AbstractTemplateViewResolverProperties.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/couchbase/CouchbaseProperties.java
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* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/admin/package-info.java
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* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/gson/GsonProperties.java
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* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/AutoConfigurations.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/amqp/RabbitProperties.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/quartz/JobStoreType.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/task/TaskExecutionAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/jdbc/DataSourceTransactionManagerAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/security/StaticResourceLocation.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/data/security/StaticResourceLocation.java
* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/web/reactive/package-info.java
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* /opt/ws_local/PERMITS_SQL/1013730207_1591898013.43/0/spring-boot-autoconfigure-2-1-9-release-sources.jar/org/springframework/boot/autoconfigure/web/reactive/error/ErrorWebFluxAutoConfiguration.java

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jar/jnr/enxio/channels/KQSelector.java

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jar/jnr/enxio/channels/Native.java

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jar/jnr/enxio/channels/NativeSelectorProvider.java

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

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

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1.278 spring-security-rsa 1.0.7
1.279 grpc-stub 1.7.0

1.280 ruby-minitest 5.10.3-1

1.281 asm-tree 5.0.3

1.282 activation 1.1

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1.283 busybox 1.30.1-r3

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jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
* /opt/ws_local/PERMITS_SQL/1009459522_1591897536.49/0/spring-webmvc-5-1-10-release-sources-
jar/org/springframework/web/servlet/DispatcherServlet.java
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jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
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jar/org/springframework/web/servlet/mvc/method/annotation/ReactiveTypeHandler.java

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 */
/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * [<link #locateSource detected>] during response rendering. Users can either specify
 * a specific entry in the model via the [<link #setSourceKey sourceKey>] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See [<link #getSourceTypes() here] for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [<link #setOutputProperties output properties] to be passed to the Transformer.
 *
 * @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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* /opt/ws_local/PERMITS_SQL/1009459522_1591897536.49/0/spring-webmvc-5-1-10-release-sources.jar/org/springframework/web/servlet/tags/ArgumentAware.java
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/**
 **
 ** A contract for inspecting and potentially modifying request data values such
 ** as URL query parameters or form field values before they are rendered by a
 ** view or before a redirect.
 *
 ** <p>Implementations may use this contract for example as part of a solution
 ** to provide data integrity, confidentiality, protection against cross-site
 ** request forgery (CSRF), and others or for other tasks such as automatically
 ** adding a hidden field to all forms and URLs.
 **
 ** <p>View technologies that support this contract can obtain an instance to
 ** delegate to via {@link RequestContext#getRequestDataValueProcessor()}.  
 **
 ** @author Rossen Stoyanchev
 ** @since 3.1
 **/

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*/

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*/

1.285 spring-boot-validation-starter
2.1.10.RELEASE
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* `/opt/ws_local/PERMITS_SQL/1014297058_1591384620.05/0/spring-boot-starter-validation-2-1-10-release-sources-jar/META-INF/maven/org.springframework.boot/spring-boot-starter-validation/pom.xml`

1.286 **commons-validator 1.6**

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1.287 spring-security-jwt 1.0.7

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1.288 asm-analysis 5.0.3

1.289 jackson-module-scala 2.9.10

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1.291 commons-lang3 2.6

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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 4e15a7343cb389e97f3eb4f49699161862d8b8b22.
---
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')
    subdir('dev-kvm')
    "subdirs = ['dev-kvm', 'ipc', 'xwayland', 'wayland', 'xorg']"
    "subdir_name = get_option('subdir-name')";
   -    "subdir('dev-kvm') = get_option('dev-kvm-mode')";
   -
diff --git a/meson_options.txt b/meson_options.txt
index 39822d6..b1d035f 100644
--- a/meson_options.txt
+++ b/meson_options.txt
@@ -177,8 +177,6 @@ option('nobody-group', type : 'string',
        value : 'nobody')
    option('dev-kvm-mode', type : 'string', value : '0666',
        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')

option('gshadow', type : 'boolean',
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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    src/udev/udev-builtin-net_setup_link.c
    src/udev/udev-builtin-hwdb.c
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    src/udev/udev-builtin-keyboard.c
    src/udev/net/link-config.h
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* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/InternalWithLogId.java
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* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/LoadBalancerProvider.java
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* /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/KnownLength.java
* /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
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/Drainable.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ServerMethodDefinition.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ServerServiceDefinition.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/ServerInterceptors.java
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* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/HandlerRegistry.java
* /opt/ws_local/PERMITS_SQL/1013966669_1591897399.64/0/grpc-api-1-24-1-sources-jar/io/grpc/Metadata.java
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1.319 lumberjack 2.0.0

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1.320 protocol-buffer-java-util-package 3.10.0

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1.321 rxjava 1.3.8

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleFromObservable.java
* /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/observables/AsyncOnSubscribe.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorNotImplementedException.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/CompletableSubscriber.java
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jar/rx/internal/operators/OnSubscribeCollect.java
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jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeFromCallable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/schedulers/SchedulerLifecycle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/utils/ExceptionsUtils.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeReduceSeed.java
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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
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jar/rx/internal/operators/OnSubscribeTakeLastOne.java
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  jar/rx/internal/operators/OnSubscribeTimerOnce.java
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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.

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1. You may redefine entire schedulers, if you so choose. To do so, override
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2. You may wrap/decorate an \link Action0\, before it is handed off to a Scheduler. The system-
   supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
   Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
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Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.

See \link RxJavaPlugins\ or the RxJava GitHub Wiki for information on configuring plugins:

See [https://github.com/ReactiveX/RxJava/wiki/Plugins](https://github.com/ReactiveX/RxJava/wiki/Plugins).

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1.329 junit 4.12
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1.330 okio 1.17.2

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* /opt/ws_local/PERMITS_SQL/1014221201_1591897829.68/0/okio-1-17-2-sources-jar/okio/HashingSink.java
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* /opt/ws_local/PERMITS_SQL/1014221201_1591897829.68/0/okio-1-17-2-sources-jar/okio/Segment.java
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1.331 instrumentation-api 0.4.3

1.332 grpc-core 1.7.0

1.333 zlib 1.2.11 r1
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Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing
all fields (only present with certain compiler settings).
* Added generation of field number constants.
Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
* 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.
Michael Kucharski <m.kucharski@gmail.com>
* 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 xlC compiler build issues
* Added atomicops for AIX (POWER)

1.335 netty-tcnative 2.0.9

1.336 jakarta-inject 2.6.1
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>>> unicode-5.0

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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1.339 jnr-enxio 0.16

1.340 jackson-module-paranamer 2.9.9

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### 1.341 open-feign-forms-extension-for-spring

#### 3.8.0

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1.342 jersey-hk2 2.29.1

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.

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@item Source Code.

The ``source code'' for a work means the preferred form of the work for
making modifications to it. "Object code" means any non-source form of a work.

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@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate

@end enumerate
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Version 3.1, 31 March 2009

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<li>Ville Skytt&auml;&amp;uml; &lt;ville.skytta@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.</li>
<li>Bruce Gordon &lt;bruce.gordon@064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
<li>Miles Whiteley &lt;Miles.Whiteley@064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>
<li>Albert Moliner &lt;amoliner@064evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;carlos@064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supported repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi@064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hahkala &lt;joni.hahkala@064cern.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@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>Atsuhioko 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>
<li>Nickolay Bolshakov &lt;tyrex@064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer@064itetoenator.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.</li>
<li>Dirk Eisner &lt;D.Eisner@064seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</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;matartuso@064ilero.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 Vassiliev &lt;paulvas@064gmail.com&gt; - Initial GOST28147Mac implementation.
Tom Pesman &lt;tom@tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

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

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

Fix Bernd (KCDP 11) &lt;bernd.fix@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@#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@#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;bianorourke@#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&lt;/a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

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

J&amp;ouml;rger Eichhorn &lt;teichhorn@#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.
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@tradise.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;sneusatz@#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

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

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

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

Armin H&auml;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 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 ctrlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;rojaquim@#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@mitm.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@#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga K&auml;thler &lt;olga.caetner@#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.

- Núria Marí &lt;numaa@hotmaill.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 Koller &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_gff@064ukr.net&gt; - mask fix to single byte read in TsIsInputStream.

- Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and signer certifictes 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 Gwozdzi &lt;gwozdziu@064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

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

- Tal Yacobi &lt;tal.yacobi@064octavian-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.

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

- J Ross Nicoll &lt;jrn@064jrm.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@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@064sigrid-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 BCPSOutputStream.

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

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

- Robert J. Moore &lt;Robert.J.Moore@allanbank.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@mail.com&gt; initial implementation of Grain-v1 and Grain-128.
Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.
Paul FitzPatrick &lt;bouncycastle_pfitz@064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; addition of UniqueIssuerID to certificate generation.
Emir Bucalovic &lt;emir.bucalovic@064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.
Torbjorn Svensson &lt;tobbe79@gmail.com&gt; datahandler patch for attached parts in SMIME signatures.
Pablo Henriquez &lt;pmahenriquez@064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.
Lothar Kimmeringer &lt;job@kimmeringer.de&gt; verbose mode for ASN1Dump, support for DERExternal.
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Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.
Elisabetta Romani &lt;eromani@064sogei.it&gt; patch for recognising multiple counter signatures.
Robin Lundgren &lt;r737lundgren@064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.
Petr Kadlec &lt;mormegil@064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.
Andreas Antener &lt;antener_a@064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.
Harendra Rawat &lt;hrawat@064yahoo.com&gt; fix for BERConstructedOctetString.
Rolf Lindemann &lt;rlindemann@064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [IBMA-42].
Alex Artamonov &lt;alexart.home@064gmail.com&gt; name look up patch for GOST-2001 parameters.
Mike Lyons &lt;mlyons@064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSS EC naming conventions.
Chris Cole &lt;chris_hCole@yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.
Tomas Krivanek &lt;tom@064atack.cz&gt; added checking of Sender header to SignedMailValidator.
Michael &lt;emfau@064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.
Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.
Markus Kil\aring:s &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.
Dario Novakovic &lt;darianis@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;wayne@064yahoo.com&gt; additional OIDs for PKCS10 and certificate generation support.
Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.
Jan Ditthberner &lt;jan@064ditthberner.info&gt; addHeader patch for SMIME generator.
Bob McGowan &lt;boab.mcgoo@064btinternet.com&gt; patch to support different object and mgf digests in
PSS signing.<li>/li>
<li>Ivo Mathies &lt;i.mathies&#064seeburger.de&gt; fix to padding verification in ISO-9796-1.&lt;/li&gt;
<li>Marco Sandrini &lt;massche&#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.&lt;/li&gt;
<li>Alf Malf &lt;alfilmalf&#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.&lt;/li&gt;
<li>Alfonso Massa &lt;alfonso.massia&#064insiel.it&gt; contributions to CMS time stamp classes.&lt;/li&gt;
<li>Giacomo Boccardo &lt;gboccardo&#064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.&lt;/li&gt;
<li>Arnis Tartu &lt;arnis&#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.&lt;/li&gt;
<li>Janusz Sikociski &lt;j.Sikocinski &#064 gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.&lt;/li&gt;
<li>Juri Hudolejev &lt;j hudolejev&#064gmail.com&gt; JetBrains project fix to CMSSignedDataParser.&lt;/li&gt;
<li>Liane Velten &lt;liane.velten&#0646hj-pkipping.com&gt; fine tuning of code for DHParameters validation.&lt;/li&gt;
<li>Tim Buktu &lt;tbuktu&#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.&lt;/li&gt;
<li>Bernd &lt;bernd&#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.&lt;/li&gt;
<li>Steing Inge Morisbak &lt;stein.inge.morisbak&#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.&lt;/li&gt;
<li>Andreas Schmid &lt;andreas.schmid&#064tnngtech.com&gt; Additional expiry time check in PGPPublicKeys.&lt;/li&gt;
<li>Phil Steitz &lt;phil.steitz&#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.&lt;/li&gt;
<li>Ignat Korchagin &lt;ignat.korchagin&#064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.&lt;/li&gt;
<li>Petar Petrov &lt;p.petrov&#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.&lt;/li&gt;
<li>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.&lt;/li&gt;
<li>Andy Neilson &lt;Andy.Neilson&#064quest.com&gt; a further patches to deal with multiple providers and PEMReader.&lt;/li&gt;
<li>Ted Shaw &lt;xo.xj&#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.&lt;/li&gt;
<li>Eleriseth &lt;Eleriseth&#064WPECGLtYbVi8RJ6Y7Vz2Lvd2EUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.&lt;/li&gt;
<li>Kenny Root &lt;kenny&#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject. BaseBlockCipher.getIV() patch for AEAD.&lt;/li&gt;
<li>Maarten Bodewes &lt;maarten.bodewes&#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.&lt;/li&gt;
<li>Philip Clay &lt;pilf_b&#064yahoo.com&gt; Initial implementation of J-PAKE.&lt;/li&gt;
<li>Brian Carlstrom &lt;brclstom&#064gmail.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.&lt;/li&gt;
<li>Samuel Lid&eacute;n Borell &lt;samuel&#06464primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.&lt;/li&gt;
<li>Sergio Demian Lerner &lt;sergiolerner&#064certimix.com&gt; pointing out isInfinity issue in ECDSSASigner.
signature verification.</li>
<li>Tim Whittington &lt;Tim.Whittington@orionhealth.com&gt; patch to remove extra init call in CMac, additional of Mandatory 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 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;st5555d@064gmail.com&gt; initial cut of DVCS classes.</li>
<li>Damian Kolasa &lt;fatfreddy@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@064mhetics.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.</li>
<li>Babak Najafi &lt;bnajafi@064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M. &lt;uuml;lller@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 Shacal2.</li>
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<li>Sid Steward &lt;sid.steward@064pdf1labs.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@064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter@064iaik.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
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 digests.

Robert Bushman &lt;bouncycastle@064traxel.com&gt;: Clean up of DirectKeySignature example.

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


KB Sriram &lt;mailto_kb@064yahoo.com&gt;: testing for odd encodings for PGP User Attribute Subpackets.

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

Daniel Heldt &lt;Daniel.Heldt@cryptovision.com&gt;: Initial support for encodable state message digests.

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


KB Sriram &lt;mailto_kb@064yahoo.com&gt;: Testing for odd encodings for PGP User Attribute Subpackets.

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

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Robert Bushman &lt;bouncycastle@064traxel.com&gt;: Clean up of DirectKeySignature example.

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KB Sriram &lt;mailto_kb@064yahoo.com&gt;: Testing for odd encodings for PGP User Attribute Subpackets.
keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen@bouncycastle#064lxtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublic&KeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in X509.CertificatePolicies.</li>
<li>Kai Kramer &lt;kai.kramer#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles#064opentrust.com&gt; Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfin95#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#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Lukasz Deputat &lt;lukasz.deputat#064gmail.com&gt; Fixed bugs in TsUtils read methods [BJA-592].</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGObjectFactory to handle stream packets at start of iterated data.</li>
<li>Andr&egrave;eacute; Berenguel &lt;https://github.com/berenguel&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>Andrey 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 Naegle &lt;jnaegle#064grierforensics.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.senekowitsch@veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSA&Key.</li>
<li>Alexandr Krivoshta &lt;wipe#064ya.ru&gt; N4 calculation fix to GOFB mode.</li>
<li>Artem Storozhuk &lt;storoj72#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>
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for EC-GOST keys, initial implementation of GOST3412-2015,
addition of fromExtensions() for CRLDistPoint.

- Artem Storozhuk &lt;storojis72&#064;#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

- Andreas Glaser &lt;andreas.glaser&#064;#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&#064;#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

- David Straw &lt;https://github.com/isomarce&gt; fix for off by one error in SCRYPT bounds checking.

- chris mccown &lt;0xchrismccown&#064;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 patch for SM2 decrypt.


- Armin Lunkeit, Michael Tautenhahn &lt;&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/ecki&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&#064;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.

- Andreas Gadermaier &lt;up.gadermaier&#064;064gmail.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/veebbee&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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1.356 golang-glog v0.0.0-20160126235308-23def4e6c14b

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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0. Definitions.

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The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

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You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

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The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
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b) Use a suitable shared library mechanism for linking with the
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For an executable, the required form of the "work that uses the
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components (compiler, kernel, and so on) of the operating system on
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It may happen that this requirement contradicts the license
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

-------------------------------------------------------------------------------
Files: *
Licence: X11

Files: aclocal.m4 package
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-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

1.369 bcel 6.1

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1.370 fast-infoset 1.2.13

1.371 xz 5.2.2 1.3

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

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 * questions.
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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Signature(I)V <clinit>()V6Ljava/lang/Enum<Lsun/net/ftp/FtpDirEntry$Permission;>;SourceFileFtpDirEntry.java
678"sun/net/ftp/FtpDirEntry$Permission9:"!
java/lang/Enum<clinit>()Ljava/lang/Enum<Lsun/net/ftp/FtpDirEntry$Permission;>

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.
 */
public String toString();

} /*
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* questions.
*/

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.
*
* 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 = -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
     * {@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).
     */
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.
* 
* @return the hash code value for this object.
*/
The required `hashCode` behavior for Permission Objects is the following:

- Whenever it is invoked on the same Permission object more than once during an execution of a Java application, the `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.
- If two Permission objects are equal according to the `equals` method, then calling the `hashCode` method on each of the two Permission objects must produce the same integer result.

@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 `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
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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1.385 apache-http-client 4.5.10

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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

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed \"s/\($\*\)\.o\[ :\]*/\1.o $@ : /g\" > $@; \n[ -s $@ ] || rm -f $@'\

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed \"s/\($\*\)\.o\[ :\]*/\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 =

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2.1.10.RELEASE

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1.392 commons-io 2.5
1.392.1 Available under license :

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1.393 dhcp 4.3.5 3ubuntu7.1

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

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

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
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jar/io/grpc/internal/AtomicLongCounter.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/TimeProvider.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/RetriableStream.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/Deframer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/OverrideAuthorityNameResolverFactory.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ForwardingNameResolver.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/GrpcAttributes.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/TransmitStatusRuntimeExceptionInterceptor.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ApplicationThreadDeframer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ReflectionLongAdderCounter.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ProxyDetectorImpl.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/LongCounterFactory.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/AtomicBackoff.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/LongCounter.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/GzipInflatingBuffer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/Framer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/TransportTracer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/FixedObjectPool.java

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* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/NoopClientStream.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/DelayedStream.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/inprocess/InProcessServer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/inprocess/InProcessChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/InternalSubchannel.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/DnsNameResolverProvider.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ServerTransport.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ContextRunnable.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/inprocess/InProcessServerBuilder.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/SerializeReentrantCallsDirectExecutor.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ExponentialBackoffPolicy.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/PickFirstLoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/inprocess/package-info.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/WritableBufferAllocator.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/InternalServer.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ServerCallImpl.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/BackoffPolicy.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/WritableBuffer.java
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* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/DelayedClientTransport.java

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* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/DelayedClientTransport.java

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jar/io/grpc/internal/TransportFrameUtil.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-
jar/io/grpc/internal/ClientCallImpl.java
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jar/io/grpc/internal/ClientStreamListener.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-
jar/io/grpc/internal/Stream.java
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jar/io/grpc/internal/ClientTransportFactory.java
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jar/io/grpc/internal/AbstractServerStream.java
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jar/io/grpc/internal/Http2ClientStreamTransportState.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-
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jar/io/grpc/internal/ServerStreamListener.java
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jar/io/grpc/util/MutableHandlerRegistry.java
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jar/io/grpc/internal/SharedResourceHolder.java
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jar/io/grpc/internal/AbstractServerImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-
jar/io/grpc/internal/ServerTransportListener.java

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jar/io/grpc/internal/ForwardingClientStreamListener.java
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* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ClientTransport.java
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* /opt/ws_local/PERMITS_SQL/1014842715_1591365900.0/0/grpc-core-1-25-0-sources-jar/io/grpc/internal/ManagedClientTransport.java
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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java
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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/cache/interceptor/KeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
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*/ /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-
jar/org/springframework/jndi/IndiLocatorDelegate.java
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/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * Exposes the {@link 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.
 *
 * See the javadocs for WebSphere's
 */
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*

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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.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/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/jmx/export/annotation/ManagedResource.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/cache/annotation/CacheConfig.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/beanvalidation/MessageSourceResourceBundleLocator.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
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.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/support/RemoteInvocationFactory.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/remoting/support/RemoteInvocationExecutor.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.

*<p><strong>NOTE</strong>: Inheritance of [@code @Conditional] annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* [@code @Conditional] itself is not declared as
* [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* [@code @Conditional] must not be declared as [@code @Inherited].
*  
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-
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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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*/

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* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/cache/interceptor/CacheOperationInvoker.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/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
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/jmx/access/EjbAccessException.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/remoting/rmi/CodebaseAwareObjectInputStream.java
* /opt/ws_local/PERMITS_SQL/1009459516_1591384688.76/0/spring-context-5-1-10-release-sources-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
* /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/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

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That's all there is to it!
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Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/aopalliance/aop/AspectException.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java
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* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/scope/DefaultScopedObject.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/interceptor/DebugInterceptor.java
As prescribed in the Crosswork Data Gateway 1.1.3 manual:

```
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/framework/advisor/AdvisorAdapter.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/target/SimpleBeanTargetSource.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/config/AopNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/framework/AopProxy.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/config/AspectjAwarePointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/framework/AopInvocationException.java
* /opt/ws_local/PERMITS_SQL/1009459519_1591384432.16/0/spring-aop-5-1-10-release-sources-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
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  jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
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enc/euc_ipv4.c::
enc/euc_ipv6.c::
enc/gb18030.c::
enc/gb2312.c::
enc/gbk.c::
enc/iso_8589_1.c::
enc/iso_8589_10.c::
enc/iso_8589_11.c::
enc/iso_8589_13.c::
enc/iso_8589_14.c::
enc/iso_8589_15.c::
enc/iso_8589_16.c::
enc/iso_8589_2.c::
enc/iso_8589_3.c::
enc/iso_8589_4.c::
enc/iso_8589_5.c::
enc/iso_8589_6.c::
enc/iso_8589_7.c::
enc/iso_8589_8.c::
enc/iso_8589_9.c::
enc/koi8_r.c::
enc/koi8_u.c::
enc/shift_jis.c::
enc/unicode.c::
enc/us_ascii.c::
enc/utf_16be.c::
enc/utf_16le.c::
enc/utf_32be.c::
enc/utf_32le.c::
enc/utf_8.c::
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enc/trans/GB/UCS%GB12345.src::
enc/trans/GB/GB2312%UCS.src::
enc/trans/GB/UCS%GB2312.src::

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enc/trans/JIS/JISX0208@1990%UCS.src::
enc/trans/JIS/JISX0212%UCS.src::
enc/trans/JIS/UCS%JISX0201-KANA.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,
Matthie 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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$FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11 21:57:37Z jhb $

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

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strftime.c::
include/ruby/st.h::
missing/acosh.c::
missing/alloca.c::
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::
ext/digest/sha1/sha1.h::
ext/sdbm/_sdbm.c::
ext/sdbm/sdbm.h::

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lib/bundler::
lib/bundler.rb::
lib/bundler.gemspec::
spec/bundler::
man/bundle-*,.gemfile.*::
```

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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

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

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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
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  AAL
  ADSL
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  AFL-1.2
  AFL-2.0
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  AGPL-3.0-or-later
  AMDPLPA
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BSD-3-Clause-No-Nuclear-Warranty
BSD-4-Clause
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CNRI-Python
CNRI-Python-GPL-Compatible
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WTFPL
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Wsuipa
X11
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XSkat
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Xnet
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Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
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curl
diffmark
dvipdfm
eCos-2.0
eGenix
gSOAP-1.3b
gnuplot
iMatix
libtiff
mpich2
psfrag
psutils
xwWindows
xinetd
xpp
zlib-acknowledgement
).reeze

# 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
).reeze

REGEXP = %r{
  \A
  (\#{Regexp.union(LICENSE_IDENTIFIERS)}
  \+?
  (\s WITH \s (\#{Regexp.union(EXCEPTION_IDENTIFIERS)})\+?)
  | (\#{NONSTANDARD})
  )
  \Z
}ox.freeze
def self.match?(license)
  !REGEXP.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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<kou@cozmixng.org>, Ryan Davis <ryand-ruby@zenspider.com>
and Nathaniel Talbott <nathaniel@talbott.ws>.

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= Contributors to Ruby

The following list might be incomplete. Feel free to add your name if your patch was accepted into Ruby.

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* He had maintained the VMS support on 2003-2004.

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* wrote rdoc for Fiber

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* He is the maintainer of:
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  * net/http, net/https
  * net/pop
  * net/smtp
  * rac
  * ripper
  * strscan

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* He was the maintainer of some standard libraries.

Koji Arai
* committer

arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
* Wrote patches for win32ole, gc.c, tmpdir.rb

Sergey Avseyev
* Added IO#pread and IO#pwrite.
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* a patch for irb
* documentation
* He wrote forwardable.rb

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* a patch for soap

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* a patch for mkmf.rb

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* a patch for documentation of Float#round

Richard Brown
* a patch for configure.in

Dirkjan Bussink
* a patch for date.rb

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* documentation
* a patch for irb

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* a patch for configure.in, net/telnet

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* a patch for optparse.rb

Frederick Cheung
* a patch for test/ruby/test_symbol.rb

Christoph
* patches for set.rb

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* patches for net/http, cgi

William D. Clinger
* ruby_strtod is based on his paper.

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* committer

Zach Dennis

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* committer
* M17N

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* patches for rdoc

Alexander Dymo
* a patch for lib/benchmark.rb

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* He wrote and is the maintainer of base64 library (1.9)
* did much upon YARV compiler.

erlercw
* wrote Integer::gcd2

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* a patch for net/pop

Fundakowski Feldman
* a patch for process.c

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* He is the maintainer of cgi/*

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* a patch for tracer.rb

Shota Fukumori (sorah)
* committer
* #4415 parallel unit/test

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* He wrote and is the maintainer of
  * date
  * parsevalue (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

== G

David M. Gay
* ruby_strtod

Florian Gilcher
* documentation

GOTOU, Kentaro (gotoken)
* committer
* He wrote benchmark.rb
* He is the maintainer of:
  * benchmark.rb
  * open3

GOTOU, Yuuzou (gotoyuzo)
* committer

James Edward Gray II (jeg2)
* committer
* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

== H

Phil Hagelberg
* patch for ruby-mode.el's documentation.
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* the maintainer of ruby_1_8_6 branch

Shinichiro Hamaji
* fixed memory leaks (marshal.c, string.c)

Shin-ichiro HARA
* the developer and the sysop of ruby-{dev,list,core,talk} archive.
* a patch for numeric.c

Chris Heath (traumdeutung)
* a patch for proc.c

HIROKAWA Hisashi
* fixed socket/socket.c

Daniel Hob
* He wrote:
  * SMTP-TLS support for net/smtp.
  * POP3S support

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* He is the maintainer of:
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  * ri
  * rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
  * documentation

Erik Huelsmann

Dae San Hwang
* built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI
* a patch for logger.rb

"incorporate"
* a patch for sprintf.c

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* committer
* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * e2mmmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

== J

Curtis Jackson
* missing/dup2.c

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* a patch for net/ftp

Lyle Johnson
* patches for nkf, bigdecimal, numeric.c

== K

Yoshihiro Kambayashi
* a patch for enc/trans/single_byte.trans.
* He wrote supports for some encodings.

Yutaka Kanemoto
* patches for common.mk, AIX AF_INET6 support

Motoyuki Kasahara
* He wrote getoptlong.rb

Masahiro Kawato
* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in
Michael Klishin
* patch for make help.

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* a patch for optparse.rb

Shigeo Kobayashi (shigek)
* committer
* He is the maintainer of bigdecimal

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* documentation

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* He wrote Oniguruma.

Takehiro Kubo
* patches for dl 64bit support.

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Hongli Lai
* improved pstore.rb
* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webrick/httpproxy.rb.

Christian Loew
* a patch for fileutils.rb

== M

Shugo Maeda (shugo)
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* A system administrator of ruby-lang.org servers.
* He wrote and is the maintainer of:
  * monitor.rb
  * net/ftp
* net/imap

Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm

Konrad Meyer
* documentation

Mib Software
* missing/vsnprintf.c

Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

MIYASAKA, Masaru
* a patch for cgi.rb

Stefan Monnier
* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for RXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.

Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

Akinori MUSHA (knu)
* committer
* He wrote and is the maintainer of:
  * abbrev.rb
  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
  * He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

==

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* He is the maintainer of tk/*

Nobuyoshi Nakada (nobu)
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* a.k.a. the "patch monster"
* He wrote and is the maintainer of:
  * optparse
  * stringio
  * io/wait
  * iconv

Satoshi Nakagawa
* patches for util.c

Narihiro Nakamura (nari)
* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
* He is the maintainer of:
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  * logger.rb
  * soap/* (1.8)
  * wsd/* (1.8)
  * xsd/* (1.8)

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* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
* committer
* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputils

Michael Neumann (mneumann)
* committer
* He is the maintainer of
  * xmlrpc (1.8)
  * gserver (1.8)

NISHIO Hirokazu
* wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)
* committer
* a.k.a. znz

Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

okkez
* He is a sysop of the Ruby Reference Manual Renewal Project.
* fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
  * missing/erf.c
  * missing/lgamma_r.c
  * missing/lgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation
Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

Gaston Ramos
* documentation

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

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

Sean Russell (ser)
* committer
* He wrote and is the maintainer of REXML.

Kazuo Saito (ksaito)
* committer
* M17N
Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*:c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation

Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

Masatoshi SEKI (seki)
* committer
* He wrote and is the maintainer of:
  * drb/*
  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibilev

Gavin Sinclair (gsinclair)
* committer

John W. Small
* He wrote gserver.rb
Yuki Sonoda (yugui)
* committer
* She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
* She wrote prime.rb.
* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
* a patch for pack.c.

Tatsuki Sugiura
* WebDAV support for net/http

Masaki Suketa (suke)
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* He is the maintainer of win32ole

sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)
* committer

Kirill A. Shutemov
* a patch for parse.y

Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/alloca.c

Robin Stocker
* documentation

Joshua Stowers
* a patch for array.c

Marcus Stollsteimer (stomar)
* committer
* a maintainer of www.ruby-lang.org
* patches for cgi (HTML5 tag maker), numeric.c, bigdecimal, ostruct.rb, prime.rb, and others
* documentation

Adam Strzelecki
* a patch for compile.c

Masashi Sumi
* improved net/pop.rb

Eric Sunshine  
* NeXT OpenStep, Rhapsody support

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* He wrote and is the maintainer of rss/*

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* documentation

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* He is the maintainer of IA-64 support.  
* BigDecimal

TAKAO, Kouji (kouji)  
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* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)  
* committer  
* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)  
* committer  
* Did much upon m17n.  
* And he is the maintainer of:  
  * open-uri  
  * pathname  
  * pp  
  * resolv-replace  
  * resolv  
  * time  
  * tsort

Takaaki Tateishi (ttate)  
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* He was the maintainer of dl

Technorama Ltd. (technoroma)  
* committer  
* openssl

Andrew Thompson
* a patch for socket.c IRIX support.

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* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

Tietew
* patches for win32 support

Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch for uri

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* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
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* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
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* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

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* a patch for numeric.c

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Corinna Vinschen

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* fixed YARV and Oniguruma.

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* a patch for time.rb

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* He is the maintainer of
  * ftools (1.8)
  * tmpdir
* un
* Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

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* fixed misc/ruby-mode.el.

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* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

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== Y

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* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

Aristarkh A Zagorodnikov
* a patch for io.c

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* a patch for misc/ruby-mode.el.

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* a patch for thread_pthread.c

Dan Zwell
* a patch for net/pop

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This is the Debian GNU/Linux prepackaged version of the Python programming 
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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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## c-ares

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

## zlib

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

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## libssh2

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

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1.441 jackson-module-jaxb-annotations 2.9.9

1.442 apache-httpcomponents-asyncclient

4.1

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* /opt/ws_local/PERMITS_SQL/1014221973_1591325664.0/0/apache-httpcomponents-asyncclient-pom-zip/apache-httpcomponents-asyncclient.pom.rtf

1.443 apache-http-client 4.4.1

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<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<meta property="og:image" content="http://www.apache.org/images/asf_logo.gif" />

<link rel="stylesheet" type="text/css" media="screen" href="/css/style.css">
<link rel="stylesheet" type="text/css" media="screen" href="/css/code.css">

<script type="text/javascript" src="/js/jquery.js"></script>
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</head>

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<h1>The Apache Software Foundation</h1>
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<div id="nav" class="grid_8">
<ul>
<!-- <li><a href="/" title="Welcome!">Home</a></li> -->
<li><a href="/foundation/" title="The Foundation">Foundation</a></li>
<li><a href="/foundation/getinvolved.html" title="Get Involved">Get Involved</a></li>
</ul>
</div>
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- ACE
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- Airavata
- Allura
- Ambari
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- APR
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- Aries
- Avro
- Axis
- Bigtop
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- Buildr
- BVal
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- CloudStack
- Cocoon
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Crunch

TAKES

Curator

CXF

DB

Deltacloud

DeltaSpike

DirectMemory

Directory

Empire-db

Etch

Felix

Flex

Flume

Forrest

Geronimo

Giraph

Gora

Gump

Hadoop

Hama

HBase

Helix

Hive

HttpComponents

Isis

Jackrabbit

James

Jclouds

Jena

JMeter

JSPWiki
<li><a href="http://juddi.apache.org/" title="Java implementation of the Universal Description, Discovery, and Integration specification">jUDDI</a></li>
<li><a href="http://kafka.apache.org/" title="Distributed publish-subscribe messaging system">Kafka</a></li>
<li><a href="http://knox.apache.org/" title="Simplify and normalize the deployment and implementation of secure Hadoop clusters">Knox</a></li>
<li><a href="http://libcloud.apache.org/" title="Unified interface to the cloud">Libcloud</a></li>
<li><a href="http://manifoldcf.apache.org/" title="Framework for connecting source content repositories to target repositories or indexes">ManifoldCF</a></li>
<li><a href="http://maven.apache.org/" title="Java project management and comprehension tools">Maven</a></li>
<li><a href="http://mesos.apache.org/" title="a cluster manager that provides efficient resource isolation and sharing across distributed applications">Mesos</a></li>
<li><a href="http://mina.apache.org/" title="Multipurpose Infrastructure for Network Application">MINA</a></li>
<li><a href="http://mrunit.apache.org/" title="Java library that helps developers unit test Apache Hadoop map reduce jobs">MRUnit</a></li>
<li><a href="http://myfaces.apache.org/" title="JavaServer(tm) Faces implementation and components">MyFaces</a></li>
<li><a href="http://olingo.apache.org/" title="OASIS OData protocol libraries">Olingo</a></li>
<li><a href="http://oltu.apache.org/" title="OAuth protocol implementation in Java">Oltu</a></li>
<li><a href="http://onami.apache.org/" title="Development and maintenance of a set of Google Guice extensions">Onami</a></li>
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<li><a href="http://climate.apache.org/" title="Climate model evaluation">Open Climate Workbench</a></li>
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<li><a href="http://opennlp.apache.org/" title="Machine learning based toolkit for the processing of natural language text">OpenNLP</a></li>
<li><a href="http://pdfbox.apache.org/" title="Java library for working with PDF documents">PDFBox</a></li>
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- Pig
- Pivot
- POI
- Portals
- Qpid
- Rave
- River
- Roller
- Santuario
- ServiceMix
- Shindig
- Shiro
- SIS
- Sling
- SpamAssassin
- Spark
- Sqoop
- Stanbol
- STeVe
- Storm
- Struts
- Subversion
- Synapse
- Syncope
- Tajo
- Tapestry
- Tcl
- Tez
- Thrift
- Tika
- Tiles
- Tomcat
- TomEE
- Trafficserver
- Apache's Python based single transferable vote software system
- Distributed, real-time computation system
- Web Framework for JCR Content Repositories
- Mail filter to identify spam
- Enterprise Service Bus and Mediation Framework
- Managing digital identities in enterprise environments
- Big data warehouse system on Hadoop
- Component-based Java Web Application Framework
- Dynamic websites using TCL
- High-performance and scalable distributed data processing framework
- Framework for scalable cross-language services development
- Content Analysis and Detection Toolkit
- A templating framework for web application user interfaces
- A Java Servlet and JSP Container
- Java EE Web Profile built on Tomcat
- A fast, scalable and extensible HTTP/1.1 compliant caching system
Open Source Used In Crosswork Data Gateway 1.1.3 3767

- Traffic Server
- Turbine
- Tuscany
- UIIMA
- Traffic Server
- Turbine
- Tuscany
- UIIMA
- Traffic Server
- Turbine
- Tuscany
- UIIMA
Open Source Used In Crosswork Data Gateway 1.1.3

Community Development

Conferences

Community Development

Incubator

ASF Infrastructure: Operations and howto documents for PMCs and contributors

Infrastructure

The Innovation Laboratories of the Apache Software Foundation

Labs

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Public Relations

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Travel Assistance

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Apache committer homepages

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In memoriam of past committers

Memorials

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Feathercast

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Other entities

Glossary

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* /opt/ws_local/PERMITS_SQL/1014842712_1591896956.19/0/grpc-stub-1-25-0-sources-jar/io/grpc/stub/annotations/RpcMethod.java
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* /opt/ws_local/PERMITS_SQL/1014842712_1591896956.19/0/grpc-stub-1-25-0-sources-
  jar/io/grpc/stub/MetadataUtils.java
* /opt/ws_local/PERMITS_SQL/1014842712_1591896956.19/0/grpc-stub-1-25-0-sources-
  jar/io/grpc/stub/ClientCalls.java
* /opt/ws_local/PERMITS_SQL/1014842712_1591896956.19/0/grpc-stub-1-25-0-sources-
  jar/io/grpc/stub/StreamObserver.java
* /opt/ws_local/PERMITS_SQL/1014842712_1591896956.19/0/grpc-stub-1-25-0-sources-
  jar/io/grpc/stub/AbstractStub.java
* /opt/ws_local/PERMITS_SQL/1014842712_1591896956.19/0/grpc-stub-1-25-0-sources-
  jar/io/grpc/stub/ServerCalls.java

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jar/org/springframework/expression/spel/TypeConverter.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/spel/Literal.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/ParseException.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/AccessException.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/expression/ParseException.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/expression/QualifiedIdentifier.java
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jar/org/springframework/expression/expression/AccessException.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/expression/StandardTypeLocator.java
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jar/org/springframework/expression/spel/OpPlus.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/spel/AstUtils.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-
jar/org/springframework/expression/spel/ast/ConstructorReference.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/common/TemplateAwareExpressionParser.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/ast/OpEQ.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/ast/SpelNodeImpl.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/SpelEvaluationException.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/spel/support/Tokenizer.java
* /opt/ws_local/PERMITS_SQL/1009459531_1591384738.74/0/spring-expression-5-1-10-release-sources-jar/org/springframework/expression/ExpressionInvocationTargetException.java

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* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/CtConstructor.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/LongVector.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/bytecode/stackmap/TypeData.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/compiler/ast/ASTList.java
* /opt/ws_local/PERMITS_SQL/1014221952_1591370586.83/0/javassist-3-18-2-ga-sources-jar/javassist/util/proxy/ProxyObjectOutputStream.java
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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
        {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)},
 .getNum() owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring
 .getNum() owner2 productid2 2020-01-01 10:00:00 +0000 UTC compstring
}
{
  formatter.Context{Format: NewSubscriptionsFormat("table", true)},
  License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
  License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
}
{
  formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
  OWNER
    owner1
    owner2
  
}
{
  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

}
{
  formatter.Context{Format: NewSubscriptionsFormat("raw", true)},

license: id1
license: id2
,
},
// Custom Format
{
formatter.Context[Format: NewSubscriptionsFormat("{{.Owner}}", false)],
`owner1
owner2
`,
},
}

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: 20,
          },
        }
      },

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",
            },
        },
    }
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),
        },
    },
    "ProductID":         "productid2",
    "ProductRatePlan":   "",
    "ProductRatePlanID": "",
    "State":             ""}
"Summary": "License Name: name2\nQuantity: 20 nodes\nExpiration 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 {
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
  case formatter.RawFormatKey:
    if quiet {
      return `license: {{.ID}}`
    }
    return `license: {{.ID}}\nnname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n``
  }
  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 {
      err := format(sub)
      if err != nil {
        return err
      }
    }
    return nil
  }
  return render(ctx)
}
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
```go
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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https://github.com/golang/protobuf

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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 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})
    }
    var 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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1.478 jnr-x86asm 1.0.2

1.479 guava 19.0
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1.482 grpc-netty 1.24.1

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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
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1.487 feign-core 10.2.3

1.488 asm-tree 7.2

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* /opt/ws_local/PERMITS_SQL/1009459528_1591385450.28/0/spring-web-5-1-10-release-sources.jar/org/springframework/http/converter/xml/AbstractXmlHttpMessageConverter.java
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#
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# MIME type (lowercased)Extensions
# ==============================================================
# application/1d-interleaved-parityfec
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# application/3gpp-ims+xml
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
```
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/aplixwareaw
# application/af
# application/atfx
application/atom+xml
application/atomcat+xml
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application/atomsvc+xml
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# application/atlxml
# application/auth-policy+xml
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application/ccxml+xml
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application/cdmi-capabilitycdmia
application/cdmi-containercdmic
application/cdmi-domaincdmid
application/cdmi-objectcdmio
application/cdmi-queucdmiq
# application/cdni
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cms
# application/cnxml+xml
# application/coap-group+json
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
application/gpx+xml
gpx
application/gxf
gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudiosk
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml
ink inkml
# application/iotp
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
json
# application/json-patch+json
# application/json-seq
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# application/lostsync+xml
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# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
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# application/nasdata
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009459528_1591385450.28/0/spring-web-5-1-10-release-sources-jar/org/springframework/http/mime.types
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* /opt/ws_local/PERMITS_SQL/1009459528_1591385450.28/0/spring-web-5-1-10-release-sources-jar/org/springframework/http/converter/AbstractHttpMessageConverter.java
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* /opt/ws_local/PERMITS_SQL/1009459528_1591385450.28/0/spring-web-5-1-10-release-sources-jar/org/springframework/http/server/reactive/UndertowServerHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1009459528_1591385450.28/0/spring-web-5-1-10-release-sources-jar/org/springframework/http/codec/json/AbstractJackson2Decoder.java
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**
**
* Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
* client, or with a new session id either because the client did not
* specify one or because the underlying session had expired. Use of this
* method does not automatically create a session. See \{link WebSession\}
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*/

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### 1.495 scala v2.12.10

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```scala
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) => ...
\`

```scala
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) => ...
\`

```scala
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```

three errors found

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1.497 snmp-4j 1.11

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

@item 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.

@item 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.

@item Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

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Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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@end subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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USA.
@end example

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `copyright' line and a pointer to where the full notice is found.

```
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```

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```
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```

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
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Version 2.1, February 1999

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

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

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

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

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1.511 object-cache-api 0.8.4

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1.512 xml-commons-resolver 1.1

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1.513 javax-annotation-api 1.3.4

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* /opt/ws_local/PERMITS_SQL/1014221138_1591897566.24/0/spring-jcl-5-1-1-release-sources-jar/org/apache/commons/logging/LogAdapter.java
* /opt/ws_local/PERMITS_SQL/1014221138_1591897566.24/0/spring-jcl-5-1-1-release-sources-jar/org/apache/commons/logging/LogFactory.java
* /opt/ws_local/PERMITS_SQL/1014221138_1591897566.24/0/spring-jcl-5-1-1-release-sources-jar/org/apache/commons/logging/LogFactoryService.java

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1.518 trilead-ssh 1.0.0-build221

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* /opt/ws_local/PERMITS_SQL/1014297050_1591897322.69/0/jnr-unixsocket-0-18-sources-jar/jnr/unixsocket/Native.java
* /opt/ws_local/PERMITS_SQL/1014297050_1591897322.69/0/jnr-unixsocket-0-18-sources-jar/jnr/unixsocket/UnixSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1014297050_1591897322.69/0/jnr-unixsocket-0-18-sources-jar/jnr/unixsocket/SockAddrUnix.java

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* /opt/ws_local/PERMITS_SQL/1014297050_1591897322.69/0/jnr-unixsocket-0-18-sources-jar/jnr/unixsocket/UnixDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1014297050_1591897322.69/0/jnr-unixsocket-0-18-sources-jar/jnr/enxio/channels/Common.java
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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

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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.
change.log Version-to-version change highlights.

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

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.
If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

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

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

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

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

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

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

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

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 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:
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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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RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)
The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

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

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

TO DO
=====

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

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

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
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1.522 io-grpc-grpc-api 1.25.0

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* /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/ServiceDescriptor.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
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jar/io/grpc/SecurityLevel.java
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* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/NameResolverProvider.java
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* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/InternalManagedChannelProvider.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/ServerInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1014221196_1591897287.29/0/grpc-api-1-25-0-sources-jar/io/grpc/Metadata.java
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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1.531 python-stdlib-extensions 3.6.8 1~18.04

1.532 failureaccess 1.0.1

1.533 yang-model-util 1.2.3
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1.538 xerces-j 2.11.0

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1.539 asm 5.0.4

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1.542 spring-tx 5.1.10

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* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
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* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/interceptor/NoRollbackRuleAttribute.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/interceptor/RecoverableDataAccessException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/dao/CannotAcquireLockException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/support/TransactionOperations.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/dao/CannotSerializeTransactionException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/transaction/TransactionTimedOutException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/dao/QueryTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
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jar/org/springframework/transaction/jta/TransactionFactory.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/TransactionException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/jta/UserTransactionAdapter.java
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jar/org/springframework/transaction/dao/PermissionDeniedDataAccessException.java
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jar/org/springframework/transaction/dao/TransientDataAccessResourceException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/transaction/NestedTransactionNotSupportedException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/IllegalTransactionStateException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
jar/org/springframework/transaction/transaction/NestedTransactionNotSupportedException.java

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  jar/org/springframework/dao/NonTransientDataAccessResourceException.java
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* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
  jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
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  jar/org/springframework/dao/DataAccessResourceFailureException.java
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  jar/org/springframework/dao/DataAccessException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
  jar/org/springframework/dao/TransientDataAccessException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
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  jar/org/springframework/dao/ConcurrencyFailureException.java
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  jar/org/springframework/transaction/event/TransactionPhase.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
  jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-
  jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
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  jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
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  jar/org/springframework/transaction/support/PersistenceExceptionTranslationInterceptor.java
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  jar/org/springframework/dao/OptimisticLockingFailureException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-jar/org/springframework/jca/ccci/connection/ConnectionSpecConnectionFactoryAdapter.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-jar/org/springframework/jca/support/SimpleBootstrapContext.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-jar/org/springframework/dao/NonTransientDataAccessException.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-jar/org/springframework/jca/cci/core/CciOperations.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-jar/org/springframework/jca/cci/object/EisOperation.java
* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-jar/org/springframework/dao/DataRetrievalFailureException.java

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* /opt/ws_local/PERMITS_SQL/1013730204_1591385378.89/0/spring-tx-5-1-10-release-sources-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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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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1.555 coreutils 8.31-r0
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1.556 cglib 3.2.5

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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>

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

/**<n
* DriversLicense POJO.
*<n
* @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) {
1.561 spdylay 1.30.0 1ubuntu1
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1.575 zstd-jni 1.4.0 1

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Zstd-jni: JNI bindings to Zstd Library

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1.576 protocol-buffer-java-api 3.10.0

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/**
 * A {@link WebApplicationContext} that can be used to bootstrap itself from a contained
 * {@link ServletWebServerFactory} bean.
 *<p>
 * This context will create, initialize and run an {@link WebServer} by searching for a
 * single {@link ServletWebServerFactory} bean within the {@link ApplicationContext}
 * itself. The {@link ServletWebServerFactory} is free to use standard Spring concepts
 * (such as dependency injection, lifecycle callbacks and property placeholder variables).
 *<p>
 * In addition, any {@link Servlet} or {@link Filter} beans defined in the context will be
 * automatically registered with the web server. In the case of a single Servlet bean, the
 * '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
 * name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
 * always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
 *<p>
 * For more advanced configuration, the context can instead define beans that implement
 * the {@link ServletContextInitializer} interface (most often
 * {@link ServletRegistrationBean}s and/or {@link FilterRegistrationBean}s). To prevent
 * double registration, the use of {@link ServletContextInitializer} beans will disable
 * automatic Servlet and Filter bean registration.
 *<p>
 * Although this context can be used directly, most developers should consider using the
 * {@link AnnotationConfigServletWebServerApplicationContext} or
 * {@link XmlServletWebServerApplicationContext} variants.
 *
 * @author Phillip Webb
 * @author Dave Syer
 * @since 2.0.0
 * @see AnnotationConfigServletWebServerApplicationContext
 * @see XmlServletWebServerApplicationContext
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-jar/org/springframework/boot/web/servlet/context/ServletWebServerApplicationContext.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
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  jar/org/springframework/boot/web/servlet/context/XmlServletWebServerApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/jta/bitronix/BitronixDependentBeanFactoryPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/jdbc/metadata/CommonsDbcp2DataSourcePoolMetadata.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/context/properties/bind/validation/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/webservices/client/WebServiceTemplateCustomizer.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/jdbc/DatabaseDriver.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/web/embedded/jetty/JettyReactiveWebServerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/logging/LoggingSystemProperties.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/web/servlet/server/StaticResourceJars.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/env/OriginTrackedMapPropertySource.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/jdbc/metadata/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/origin/PropertySourceOrigin.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
  jar/org/springframework/boot/convert/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221197_1591897450.05/0/spring-boot-2-1-10-release-sources-
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* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/runtime/Cflow.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/util/proxy/Proxy.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/bytecode/analysis/Subroutine.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/tools/rmi/StubGenerator.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/convert/TransformFieldAccess.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/CtNewClass.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/CtConstructor.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/expr/FieldAccess.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/LoaderClassPath.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/expr/NewArray.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/compiler/ast/AssignExpr.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/tools/callback/Callback.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/convert/TransformNew.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/tools/rmi/RemoteRef.java
* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/bytecode/ConstPool.java
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* /opt/ws_local/PERMITS_SQL/1014298132_1591897723.99/0/javassist-3-22-0-cr2-sources-jar/javassist/bytecode/annotation/ByteMemberValue.java
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jar/io/grpc/internal/testing/StatsTestUtils.java
* /opt/ws_local/PERMITS_SQL/1014842711_1591896934.85/0/grpc-testing-1-25-0-sources-
jar/io/grpc/internal/NoopClientCall.java
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jar/io/grpc/testing/TlsTesting.java
* /opt/ws_local/PERMITS_SQL/1014842711_1591896934.85/0/grpc-testing-1-25-0-sources-
jar/io/grpc/internal/testing/SingleMessageProducer.java
* /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/internal/testing/TestStreamTracer.java
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1.588 spring-security-rsa 1.0.7.RELEASE

1.589 hibernate-validator 6.0.17
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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/config/BeanPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-jar/org/springframework/beans/factory/config/NamedBean.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-jar/org/springframework/beans/factory/config/BeanDefinitionCustomizer.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-jar/org/springframework/beans/propertyeditors/FileEditor.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-
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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/xml/NamespaceHandlerResolver.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-jar/org/springframework/beans/support/ResourceEditorRegistrar.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-jar/org/springframework/beans/factory/BeanNameAware.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-jar/org/springframework/beans/factory/parsing/SourceExtractor.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/propertyeditors/URLEditor.java
* /opt/ws_local/PERMITS_SQL/1009459525_1591384434.94/0/spring-beans-5-1-10-release-sources-jar/org/springframework/beans/propertyeditors/ReaderEditor.java

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.596 java-classmate 1.4.0

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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## Source Code

The project maintains the following source code repositories:

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* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
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/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * int queueCapacity is configured (the default), the
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 * in java.util.concurrent.ThreadPoolExecutor for
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 * By default this is set to Integer.MAX_VALUE.
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* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/simp/stomp/StompSessionHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/simp/stomp/StompFrameHandler.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/annotation/SubscribeMapping.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/handler/annotation/Header.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/tcp/TcpConnectionHandler.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/tcp/TcpOperations.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/handler/invocation/HandlerMethodArgumentResolver.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/tcp/TcpConnectionHandler.java
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* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/spring-messaging-5-1-10-release-sources-jar/org/springframework/messaging/handler/InvocationListenerFactory.java

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  jar/org/springframework/messaging/handler/MessagingAdviceBean.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-
  jar/org/springframework/messaging/simp/SimpMessageSendingOperations.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-
  jar/org/springframework/messaging/simp/user/SimpUser.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-
  jar/org/springframework/messaging/ converter/ StringMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1013730230_1591385285.4/0/spring-messaging-5-1-10-release-sources-
  jar/org/springframework/messaging/handler/invocation/ MethodArgumentResolutionException.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/StompClientSupport.java
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  jar/org/springframework/messaging/simp/SimpMessageTypeMessageCondition.java
1.599 slf4j-log4j 1.7.28

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1.602 jsr305 3.0.2

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1.610 jackson-core 2.10.0
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- [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](https://www.cryptoworkshop.com). MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Mühlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.
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Additional CertPath testing and validation data from the CertPath testing tool developed by Core Infrastructure GmbH and media Transfer AG both located in Darmstadt, Germany.

Core Infrastructure Initiative - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.

People

Tito Pena &lt;Fortunato.Pena&#064;AdNovum.CH&gt; - initial RC5 implementation

Michael Lee &lt;yfl&#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&#064;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;uw&#064;csc.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.</li>
<li>Waclaw Sierek &lt;waclaw.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@#064;init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.</li>
<li>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/</li>
<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;tomasm@#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@hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keystore 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;lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.</li>
<li>Martin Petraschek &lt;e9526225@student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.</li>
<li>Jess Garms &lt;jgarms@#064;yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.
Mike Bremford &lt;mike@big.faceless.org&gt; - contributing the initial PKCS7 implementation.

Shankar Srinivasan &lt;ss@02@064@yahoo.com&gt; - S/Mime interoperability testing and debugging.

Stef Hoeben &lt;ilsestef@skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.

Klaudiusz Cioksi &lt;kciosk@max.com.pl&gt; - improving the compatibility of the S/MIME package with the Sun JCE.

Thomas Houtekier &lt;Thomas.Houtekier@tectrade.net&gt; - S/Mime testing and debugging.

Interoperability with Biztalk.

Don Hillsberry &lt;hillsber@064:dialcorp.com&gt; - S/Mime testing and debugging.

Kazuo Furuaya &lt;kfuruuya@infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.

Jason Novotny &lt;jdnovotny@lbl.gov&gt; - initial work on the openSSL PEM processing.

Joel Hockey &lt;joel.hockey@064:qsipayments.com&gt; - initial work on the openSSL PEM processing.

John Steenbruggen &lt;JohnS@064:geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske &lt;justin@064:chapweske.com&gt; - ordering patch for Tiger message digest.

John Sercok &lt;jsercok@064:hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.

Sascha Weinreuter &lt;Sascha.Weinreuter@cit.de&gt; - fixed SMIME saveChanges() bug.

Andre Wehnert &lt;aw5@tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.

Luigi Lo Iacono &lt;lu_iacono@064:tu-dresden.de&gt; - adding SIC mode to the blockciphers in the provider.

Tim Sakach &lt;tsakach@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; &lt;sc2@inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza &lt;nicolas.bielza@alligacom.com&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;rsdio@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/SMIME CompressedData.

Jarek Gawor &lt;gawor@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 Kattch&eacute;e &lt;J.Kattchee@seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multpart objects.

Matteo Artuso &lt;matartuso@064:libero.it&gt; - picking up the possible overread in ASN1InputStream.

Julian Morrison &lt;julian@064:entropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein &lt;eso@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;blkl@064:cps.com.au&gt; - Other provider compatibility fixes for CMS signing.
Artem Portnoy &lt;Artem_Portnoy@ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.&lt;/li&gt;
<li>Michael H&auml;uIll;usler &lt;haeusler@064ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.&lt;/li&gt;
<li>Johan Seland &lt;johans@064netfonds.no&gt; - general toString for BigInteger class.&lt;/li&gt;
<li>Johannes Nicolai &lt;johannes.nicolai@064novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.&lt;/li&gt;
<li>Marc Doberva &lt;marc.doberva@064ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.&lt;/li&gt;
<li>Jan Dvorak &lt;jan.dvorak@064mathan.cz&gt; - initial implementation of the light weight Null block cipher.&lt;/li&gt;
<li>Joe Cohen &lt;jcohen@064forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.&lt;/li&gt;
<li>Chris Long &lt;cllong@064ece.cmu.edu&gt; - adding public key decoding to PEMReader.&lt;/li&gt;
<li>Hes Siemelink &lt;hes@064izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.&lt;/li&gt;
<li>Stefan Puiu &lt;stefanpuiuro@yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.&lt;/li&gt;
<li>Kaiser Yang &lt;kai eryang@yahoo.com&gt; - finding BigInteger loop problem in prime generation.&lt;/li&gt;
<li>Jiri Urbanec &lt;jiri.urbanec@064logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().&lt;/li&gt;
<li>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.&lt;/li&gt;
<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.&lt;/li&gt;
<li>Michal Dvorak &lt;M_Dvorak@064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.&lt;/li&gt;
<li>Klaus Greve Fiorentini &lt;klaus@064epqd.com.br&gt; - array fix in PGPPublicKeyEncSessionPacket.&lt;/li&gt;
<li>Olivier Refalo &lt;Olivier_Refalo@064fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.&lt;/li&gt;
<li>Mariusz Bandola &lt;mariusz.bandola@064cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSSRequest class. Patch to X509Name for delaing with general objects in sequences.&lt;/li&gt;
<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 PGPUtility.&lt;/li&gt;
<li>Ian Haywood &lt;ian@064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.&lt;/li&gt;
<li>Jonathan Edwards &lt;j34gull@064mac.com&gt; - initial support for reading multiple rings from a PGP key file.&lt;/li&gt;
<li>Andrew Thornton &lt;andrew@064care.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.&lt;/li&gt;
<li>Gregor Leander &lt;gl@064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.&lt;/li&gt;
<li>Antoon Bosselaers &lt;Antoon.Bosselaers@064sat.kuleuven.ac.be&gt; - help with RIPEMD320 implementation.&lt;/li&gt;
<li>Peter Sylvester &lt;peter.sylvester@064adelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.&lt;/li&gt;
<li>Doug &lt;ummmm@064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.&lt;/li&gt;
<li>Francois Staes &lt;staes@064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSComponentDataGenerator, patch to DH key agreement.&lt;/li&gt;
W.R. Dittmer &lt;wdittmer@cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto &lt;laperez@64banxico.mx&gt; - patch to use of BitString in X.500 name.

James Wright &lt;James_Wright@64harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford &lt;jim@64muirford.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 Hausler &lt;haeusler@64ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhotla &lt;psai@64linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller &lt;joseph@064digieweb.net.nz&gt; - addition of ZeroBytePadding.

Lars &lt;xyz@64sgademdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen &lt;jeroen@64vanvianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun@64diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdukem@email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva@wedoconsulting.com&gt; - patch to fix overead issue in BCPGInputStream.

Alpesh Parmar &lt;alps@64linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach &lt;jgengelbach@64webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

Doug &lt;doug@64tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy &lt;mmundy1@umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.

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

Breitenstrom Christian &lt;C.Breitenstrom@64t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko &lt;zanotti@64cad.it&gt; - patch to ordered equality test for X509Name.

Nicola Scendonii &lt;nsendonii@64babelps.it&gt; - patch to add sorting to CertPath validation.

Ville Skytt&auml; &lt;ville.skytt&auml;@iki.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@savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley &lt;Miles.Whiteley@64savvis.net&gt; - "223" fix for BCPGInputStream new packets.

Albert Moliner &lt;tamoliner@64evintia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;Carlos@64evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgadillo &lt;javi@javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala &lt;joni.hahkala@64ccern.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"&gt;EGEE project&lt;/a&gt; for making the work available.

Rolf Schillinger &lt;rolf@64sir-wum.de&gt; - initial implementation of Attribute Certificate generation.

Sergey Bahtin &lt;Sergey_Bahtin@64yahoo.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@keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
- Atsuhiko Yamanaka &lt;yynn@#064icraft.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@#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.
- Soren Hilmer &lt;soren.hilmer@#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
- Steve Mitchell &lt;mitchell@#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

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

- Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 7816-4 padding.
- Julien Pasquier &lt;juilienpasquier@#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
- Matteo &lt;matartuso@#064libero.it&gt; - sequence patch to ASN1Dump.
- Andrew Paterson &lt;andrew.paterson@#064burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.
- Vladimir Molotkov &lt;vladimir.n.molotkov@#064intel.com&gt; - extensive provider exception handling compliance testing.
- Florin Kollan &lt;adlocflo@#064web.de&gt; - fix to ElGamalKeyParameters equality testing.
- Pavel Vassiliev &lt;paulvas@#064gmail.com&gt; - Initial GOST28147Mac implementation.
- Tom Pesman &lt;tom@#064nux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
- Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.
- Arndt Hasch &lt;Arndt.Hasch@#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.
- Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.
- David M. Lee &lt;dlmlee@#064crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
- Mike Dillon &lt;md5@#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- 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;dlmlee@#064crossroads.com&gt; - implementation assistance with streaming CMS classes.
- Joel Rees &lt;rees@#0644dcom.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;lbugbee@#064mac.com&gt; - initial ECNR implementation.
- Remi Blancher &lt;Remi.Blancher@#064keynectis.com&gt; - Contributions to TSP implementation.
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-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.</li>
<li>David Josse &lt;david.josse#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>
<li>Kishimoto Kazuhiiko &lt;kazu-k#064hi-no.he.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#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 multipication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>
<li>J&ouml;rg Eichhorn &lt;eichhorn#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<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 EC Curve.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>
<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 compliance with the NIST CertPath tests.</li>
<li>Carlos Lozano Ruiz &lt;carlos#064tradise.com&gt; - patch for &lt;ctl&gt; &lt;ctrl&gt; &lt;m&gt; &lt;only handling in CRLFOutputStream.&lt;/li>
<li>John Alfred Prufrock &lt;j.a.prufrock#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neuszat Guilhen &lt;stneuszat#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>
EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.

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

Armin H&#x00f6;amml&egrave;rling &lt;arminha@064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mmschilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vouch &lt;xavier@064britannysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews@064dcode.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;tjoaquim@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 PGP/SecretKeyRing.

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

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

Matthias &lt;g@064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga K&amp;auml;uthler &lt;olga.kaethler@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.

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

N&amp;uacute;ria Mari&amp;iacute; &lt;numaa@hotmail.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@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@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;pknopp@064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz &lt;gwozdziu@064rpg.pl&gt; - addition of getNext() 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.
<li>Andrey Pavlenko &lt;andrey.a.pavlenko&#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
<li>John Ross Nicoll &lt;jrn&#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknz&#064604yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li>
<li>Gabriele Contini &lt;gcontini&#064604hotmail.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
<li>Roelof Naude &lt;roelof.naude&#064604epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck&#064604signature.at&gt; - identified problem with DERAapplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaymd&#064604lemaymd.com&gt; - identified problem with EAX [BIA-93].</li>
<li>Alex Dupre &lt;ale&#064604FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [BIA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [BIA-102].</li>
<li>Michael Schoene &lt;maischneider-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Jon Larrañaga &lt;ilarra&#064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputSteam.</li>
<li>Bob Kerns &lt;bob.kerns&#064positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer&#064604ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore&#064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui&#064604po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic&#064604mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;torbe79&#064604gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bouncycastle_pfitz&#064604fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henri Andersson &lt;k.henrik.andersson&#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit&#064604gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23&#064604yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henrique &lt;pmahenrique&#064604gmail.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 DERExternal, DNS performance fix for S/MIME API.</li>
<li>Richard Farr &lt;rarr.se&#064604gmail.com&gt; - initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione&#064604au.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&#064604gmail.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&#064604gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hsrawat&#064604yahoo.com&gt; - fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;lindeumann&#064604trustcenter.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&#064gmail.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomas Krivanek &lt;tom&#064atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau&#064ot-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>Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
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<li>Trevor Perrin &lt;trevor&#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil.steitz#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Petar Petrov &lt;p.petrov#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Daniel Fitzpatrick &lt;daniel.f.wnr#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#064quest.com&gt; a 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#WPECGLtYbVI8Rl6Y7Vzl2Lvd2EUVW99v3yNV3IWR0G8.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;phil_f#064yahoo.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, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lid&eacute;n Borell &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 ECDSASigner signature verification.</li>
<li>Tim Whittington &lt;Tim.Whittington#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>
<li>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.</li>
<li>Andrey Zhozhin &lt;zhozhin#064xmr.ru&gt; patch for override of TSP SignerInfo attributes.</li>
<li>Sergey Tiunov &lt;s555s#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>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
RFC6637 support.</li>
<li>Matti Aarnio &lt;matti.aarnio&#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, 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&uuml;ller &lt;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 Shacal2.</li>
<li>Roberto Tyley &lt;rtyley&gt; further work on completing gradle build.</li>
<li>Waldemar Dick &lt;wdick&#064devmue.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&#06464google.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;gsoc.student&#064gmail.com&gt; initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter&#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Oliver Ehli &lt;ehli&#064064arago.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&#064064traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;maart&#064064risecure.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 PBE mac/key generator builders.</li>
<li>Tobias Wich &lt; tobias.wich&#064064csec.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&#064064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jt.kapitza&#064064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.
<li>Johan Eklund &lt;johan@primekey.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/OpenBSDCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek@#064htfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto@#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot &lt;thomas.belot+BC@#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<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.</li>
<li>Bj@ouml;nrn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Sch@uumlnr.mann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in GPGSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael &lt;MSKnete@#064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
<li>lartiguePierre &lt;https://github.com/lartiguePierre&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@bouncycastle@#064xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactoy, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>
<li>Dominik Sch@uumlnr.mann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in GPGSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael &lt;MSKnete@#064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</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@bouncycastle@#064xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactoy, initial object signer verifier for BC lightweight EC.</li>
<li>Benoit Charles &lt;benoit.charles@opentrust.com&gt; Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfink95@#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 Blake2bDigest copy constructor, blake2b reset for variant keys.</li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certhpath 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 PGPObjectFactory to handle stream packets at start of iterated data.</li>
<li>Andr&amp;eacute; Berenguel &lt;https://github.com/berenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
<li>Slawomir Jaranowski &lt;https://github.com/slakwjaranowski&gt;; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-
Open Source Used In Crosswork Data Gateway 1.1.3

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;jaegele@064grieforensics.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&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.
- Joerg Senekowitsch &lt;joerg.senekowitsch@064veridos.com&gt;: patch to deal with hard coded boolean in EAC ECDSAPublicKey.
- Alexandr Krivoshto &lt;wipe@064ya.ru&gt;: N4 calculation fix to GOFB mode.
- Artem Storozhuk &lt;storojs72@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.
- Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@064stud.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.
- 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@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;mailto:&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/flooeys&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/ecki&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;mailto:fgrieu@#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.

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

Tony Washer &lt;mailto:tony.washer@yahoo.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 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 RSAPrivateKeyParameters.

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&eacute;r, TrueSec &lt;mailto:Henrik.Palmer@#064truesec.se&gt; Additional improvements to constant time comparisons.

Ren&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.

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

dbusche &lt;https://github.com/dbusche&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 Mmadueke &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;tobias@064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.

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**1.612 yang-model-util 0.8.4**

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<li>Joni Hahkala &lt;joni.hahkala@604cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www-egee.org">EGEE project</a> for making the work available.</li>
<li>Rolf Schillinger&amp;lt;rolf@604sir-wum.de&amp;gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey_Bahtin@604yahoo.com&gt; - fix for recovering certificate aliases in BKS and Open Source Used In Crosswork Data Gateway 1.1.3 4990
UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

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

- Atsuhiko Yamanaka &lt;ymnk@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@064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

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

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

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

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

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

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

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

- Vladimir Molotchkov &lt;vladimir.n.molotchkov@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@064nux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

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

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

- Fix Bernd (KCDP 11) &lt;bernd.fix@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@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@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;Remi.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@#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kiishimoto Kazuikiko &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;lawntan@#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Brian O'Rourke &lt;Brianorourke@#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.

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

Jörg Eichhorn &lt;j@eichhornConsulting.de&gt; - patch to fix EOF read on SharedFileStream, 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/hascode 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. 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.

EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.</li> <li>Maria Ivanova &lt;maria.ivanova@gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li> <li>Armin H&auml;berling &lt;arminha@student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li> <li>Marius Schilder &lt;m.schilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li> <li>Xavier Le Vouch &lt;xavier@brittanysoftware.com&gt; - general code clean ups.</li> <li>Erik Tews &lt;e_tews@064dcode.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@064mitm.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@064rttnrer.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li> <li>Olga K&uuml;hlen &lt;olga.kaethler@064hjconsulting.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>Nuria Mar&iacute; &lt;numaa@hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li> <li>Janis Schuller &lt;js@064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li> <li>Michael Samblanet &lt;msamblanet@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_gffi@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@064ntg.de&gt; - fix for named curve recognition in ECGOST key generation.</li> <li>Jakub Gwozd &lt;gwzodziu@064rpg.pl&gt; - addition of getTsa() 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@064octaviantech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li> <li>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.
<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>
<li>Roelof Naude &lt;roelof.naude@#064epiuse.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@#064sigrid-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 BCPCOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns@#064positscience.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@#064allanbank.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;tobbe79@#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 BCS/MIMEAPI.</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 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 Kinneringer &lt;job@#064kinneringer.de&gt; - verbose mode for ASN1Dump, support for DEREexternal, DNS performance fix for S/MIME API.</li>
<li>Richard Farr &lt;farr.se@#064gmail.com&gt; - initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione@#0644au.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;linemann@#064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible
attribute specifications [#BMA-42].</li>
<li>Alex Artamonov &lt;alexart.home&#064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole &lt;chris_h_cole&#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomas Krivanek &lt;tom&#064atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau&#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor&#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kilarings &lt;markus&#064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis&#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith&#064604cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio&#064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex&#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant &lt;waynedgrant&#064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.</li>
<li>Frank Cornelis &lt;info&#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittbener &lt;jan&#064dittbener.info&gt; addHeader patch for SMIME generator.</li>
<li>Bob McGowan &lt;boab.mcgoo&#064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis &lt;ivo.matheis&#064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
<li>Alf Sandini &lt;alfsandini&#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf &lt;alfilmalf&#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa &lt;alfonso massa.massa&#064#064insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo&#064unicaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis&#0644ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociski &lt;J.Sikocinski&#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev &lt;jhudolejev&#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten &lt;liane.velten&#064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden &lt;swillden&#064064google.com&gt; additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev &lt;akrachev&#064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Mickael Laiking &lt;mickael.laiking&#064keynectis.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&#064keynectis.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Moribak &lt;stein.inge.moribak&#064#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>Petar Petrov &lt;p.petrov#064bers-soft.com&gt;: Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>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.</li>
<li>Andy Neilson &lt;Andy.Neilson#064quest.com&gt;: a 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#064WPECGLIYbV1sRi6Y7VzI2Lvd2EUVW99v3yNV3IWROG8.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;phil_b#064yahoo.com&gt;: Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom &lt;bcd#064carlstrom.com&gt;: compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Tim Whittington &lt;Tim.Whittington#064orionhealth.com&gt;: patch to remove extra init call in CMac, additional of Memable 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 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#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;tatfredyy#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@mathics.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@6akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M&amp;uuml;lfer &lt;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>Axel VDB &lt;axel-vdb@riseup.net&gt; initial implementation of Shacal2.</li>
<li>Roberto Tyley &lt;rtyley@grudenburg.com&gt; further work on completing gradle build.</li>
<li>Waldemar Dick &lt;wdick@064devmue.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@064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter@064iaik.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&amp;lt;ehli@064arago.de&amp;gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt&amp;lt;Daniel.Heldt@cryptovision.com&amp;gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bouncecastle@064traxel.com&amp;gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;aarts@064risecure.com&amp;gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer&amp;lt;https://github.com/franziskuskiefer&amp;gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sriram&amp;lt;mail_kb@yahoo.com&amp;gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze&amp;lt;marco@064nightlabs.de&amp;gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaef&amp;lt;https://github.com/martinschaef&amp;gt; contributed a code-cleanup patch.</li>
<li>dstutz&amp;lt;https://github.com/dstutz&amp;gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich&amp;lt;tobias.wich@064ecsec.de&amp;gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens&amp;lt;hauke@064hauke-m.de&amp;gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman&amp;lt;dmz@064galois.com&amp;gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza&amp;lt;j.kapitza@schatzko.de&amp;gt; iterable support in OpenPGP API, code cleanup in OpenPGP API.
<li>Johan Eklund &lt;johan@primekey.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/OpenBSD BCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek@#064htfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto@#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSignedData.</li>
<li>Thomas Belot &lt;thomas.belot@BC@#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce &lt;https://github.com/richdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Bjørn Kautler &lt;https://github.com/BjørnKautler&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Schüuml;rmann &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.</li>
<li>Michael &lt;https://github.com/michaeljave&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</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@bouncycastle@#064xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;https://github.com/sebastian.ording@robotron.de&gt; Fixes to toString() in X509.CertificatePolicies.</li>
<li>Andrey Vasilyev &lt;https://github.com/andreyvasilyev&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 Naegle &lt;jnaegle@064grierforensics.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@064wpi.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.senekowitsch@064veridos.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;storojis72@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>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
<li>Andreas Schack-Mullingen &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@064stud.tu-darmstadt.de&gt; Initial XMSS/XMSSMT implementation.</li>
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>
<li>Artem Storozhuk &lt;storojis72@064gmail.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 ECOST-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@064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>
<li>chris mccown &lt;0xchrismccown@064gmail.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().
Armin Lunkeit, Michael Tautenhahn &lt;&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/ecki&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&amp;gt; bringing PGPSecretKey.getUserIds() into line with PGPUtilSecretKey.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#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.

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

Tony Washer &lt;tony.washer@yaho.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 mics.

Vincent Bouckaert &lt;https://github.com/veebee&amp;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 JournalAlgorithm.

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

Gilih95 &lt;https://github.com/Gilih95&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#064truesec.se&gt; Additional improvements to constant time comparisons.

Ren&amp;eacute;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 SExpr.

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.

dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.
<li>Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
<li>Gepley &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;tobias@pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>
</ul>

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